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TABLE OF CONTENTS

CALENDAR	5
FOUNDATION AND ENDOWMENT.....	7
GOVERNMENT AND BOARD OF TRUSTEES.....	7
THE UNIVERSITY AND THE FACULTIES.....	10
OFFICERS OF INSTRUCTION AND OF ADMINISTRATION.....	11
ADMISSION TO THE UNDERGRADUATE COLLEGES.....	39
PAYMENTS TO THE UNIVERSITY.....	46
THE GRADUATE SCHOOL.....	49
THE COLLEGE OF ARTS AND SCIENCES.....	63
THE COLLEGE OF LAW.....	93
THE MEDICAL COLLEGE.....	97
THE VETERINARY COLLEGE.....	111
THE COLLEGE OF AGRICULTURE.....	117
THE COLLEGE OF ARCHITECTURE.....	138
THE COLLEGE OF CIVIL ENGINEERING.....	145
SIBLEY COLLEGE OF MECHANICAL ENGINEERING.....	151
THE UNIVERSITY LIBRARY.....	162
SCHOLARSHIPS AND PRIZES.....	165
HOLDERS OF FELLOWSHIPS AND OF SCHOLARSHIPS.....	171
MILITARY SCIENCE AND TACTICS, ETC.....	174
BENEFICIARY FUNDS.....	177
ALUMNI ORGANIZATIONS.....	179
THE SUMMER SESSION.....	190
THE FORTY-NINTH ANNUAL COMMENCEMENT.....	205
CATALOGUE OF STUDENTS.....	217
SUMMARIES OF REGISTRATION.....	269
STUDENTS IN THE SUMMER SESSION.....	271
STUDENTS IN THE WINTER COURSES.....	288
INDEX OF SUBJECTS AND OF NAMES.....	291

1917																				
JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	26	27	28	29	30	31	..	23	24	25	26	27	28	29
..	30
OCTOBER							NOVEMBER							DECEMBER						
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14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31	25	26	27	28	29	30	..	23	24	25	26	27	28	29
..	30	31
1918																				
JANUARY							FEBRUARY							MARCH						
..	..	1	2	3	4	5	1	2	1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31	24	25	26	27	28	24	25	26	27	28	29	30
..	31
APRIL							MAY							JUNE						
..	1	2	3	4	5	6	1	2	3	4	1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30	26	27	28	29	30	31	..	23	24	25	26	27	28	29
..	30
JULY							AUGUST							SEPTEMBER						
..	1	2	3	4	5	6	1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4													

5

CALENDAR

First Term, 1917-18

Sept. 14,	Friday,	Entrance examinations begin.
Sept. 24,	Monday,	Academic year begins. Registration of new students. Scholarship examinations begin.
Sept. 25,	Tuesday,	Registration of new students.
Sept. 26,	Wednesday,	Registration of old students.
Sept. 27,	Thursday,	Instruction begins in all departments of the University at Ithaca. President's annual address to the students at 12 m.
Sept. 29,	Saturday,	Registration, Graduate School.
Oct. 1,	Monday,	Instruction begins in the Medical College in New York City.
Oct. 16,	Tuesday,	Last day for payment of tuition.
Nov. 7,	Wednesday,	Winter Courses in Agriculture begin.
Nov. 29,	Thursday,	Thanksgiving Recess.
Dec. 1,	Saturday,	Latest date for announcing subject of theses for advanced degrees in June.
Dec. 21,	Friday,	Instruction ends
Jan. 2,	Wednesday,	Instruction resumed { Christmas Recess.
Jan. 10,	Thursday,	The '94 Memorial Prize Competition.
Jan. 19,	Saturday,	Instruction ends.
Jan. 21,	Monday,	Term examinations begin.

Second Term, 1917-18

Jan. 26,	Saturday,	Registration, undergraduates.
Jan. 28,	Monday,	Registration, Graduate School.
Jan. 28,	Monday,	Instruction begins.
Feb. 15,	Friday,	Winter Courses in Agriculture end.
Feb. 15,	Friday,	Last day for payment of tuition.
Mar. 15,	Friday,	The latest date for receiving applications for Fellowships and Scholarships in the Graduate School.
April 11,	Thursday,	The latest date for presenting Woodford Orations.
May 3,	Friday,	The Woodford Prize Competition.
May 15,	Wednesday,	Term examinations begin.
May 17,	Friday,	The '86 Memorial Prize Competition.
May 22,	Wednesday,	Fiftieth Annual Commencement.
June 13,	Thursday,	Commencement of the Medical College in New York City.
Aug. 1,	Thursday,	Latest date for announcing subjects of theses for advanced degrees in February.

Third Term (in the College of Agriculture only), 1917-18

June 10,	Monday,	Registration.
June 11,	Tuesday,	Instruction begins.
Sept. 25,	Wednesday,	Term ends.

Summer Session, 1918

July 8,	Monday,	Summer Session begins.
Aug. 16,	Friday,	Summer Session ends.

Summer School in Agriculture, 1918

July 8,	Monday,	Summer School begins.
Aug. 16,	Friday,	Summer School ends.

CORNELL UNIVERSITY

FOUNDATION AND ENDOWMENT

"I would found an institution where any person can find instruction in any study."—EZRA CORNELL.

Cornell University was incorporated by the legislature of the State of New York on April 27, 1865, and to the University there were appropriated the proceeds of the sale of land scrip representing nine hundred and ninety thousand acres of public lands granted to the State in accordance with the provisions of an Act of Congress, approved on July 2, 1862. The amount realized from the State's sale of this land scrip was \$688,576.12.

Toward the endowment and maintenance of the new university, Ezra Cornell, at its foundation, donated \$500,000, and two hundred acres of land with useful buildings, along with several smaller gifts for special purposes.

A large portion of the land scrip sold by the State of New York was purchased by Ezra Cornell under contract providing that the profits derived from the sale of the lands should accrue to Cornell University. Under this contract of purchase, and by the wise administration of Ezra Cornell and the Board of Trustees through its Land Committee, of which Henry W. Sage was for many years chairman, Cornell University has up to July 1, 1917, realized \$5,047,371.90.

Cornell University was opened on October 7, 1868.

The lands and buildings and the equipment of the University have an estimated value of \$8,479,789.66. The productive and other funds of the University amount to \$15,542,192.82.

The current income of the University for the year 1916-17 was \$3,215,066.14. Of this amount, \$683,590.98 consisted of tuition and laboratory fees; \$709,048.77 was appropriated by the State of New York for the College of Agriculture and the Veterinary College; the residue of \$1,822,426.39 came from general investments and from miscellaneous sources. Donations and gifts during the year amounted to \$150,472.79.

The total expenses of the University for the corresponding period were \$3,116,084.53. The salaries of members of the instructing staff amounted to \$1,156,096.36; departmental expenses were \$747,304.28; the erection of new buildings cost \$277,760.30, all other expenses for the year amounted to \$974,935.42.

A detailed statement of the finances of the University is included in the annual report of the Comptroller, which accompanies the Annual Report of the President; this may be had gratis on application to the Secretary of the University.

GOVERNMENT OF THE UNIVERSITY

The government of Cornell University is vested in a President elected by the Board of Trustees, and a Board of Trustees, consisting of the President of

the University and forty-two other members, of whom seven are *ex-officio*, viz.: the Governor of the State of New York, the Lieutenant-Governor, the Speaker of the Assembly, the Commissioner of Education, the Commissioner of Agriculture, the President of the State Agricultural Society, and the Librarian of the Cornell Library. The eldest lineal male descendant of Ezra Cornell is a trustee during his life. Of the remaining thirty-four members, fifteen are elected by co-optation for a term of five years, ten are elected by the alumni of Cornell University to serve for five years, five are appointed by the Governor of the State of New York for the same term of service, three are elected by the University Faculty for terms of one, two, and three years, and one is annually elected by the State Grange.

BOARD OF TRUSTEES

The President of the University.....	J. G. Schurman, Ithaca
The Governor of New York.....	Charles S. Whitman, Albany
The Lieutenant Governor.....	Edward Schæneck, Albany
The Speaker of the Assembly.....	Thaddeus C. Sweet, Albany
The Commissioner of Education.....	John H. Finley, Albany
The Commissioner of Agriculture.....	Chas. S. Wilson, Albany
The President State Agr. Society.....	Fred W. Sessions, Utica
The Librarian of the Cornell Library (City),	Charles Mellen Tyler, 1601 Washing-
ton Ave., Scranton, Pa.	
Charles Ezra Cornell.....	Ithaca
*Henry H. Westinghouse ... (B)...	165 Broadway, New York
*Charles E. Treman ... (B)...	Ithaca
*Roger B. Williams ... (B)...	Ithaca
†*Franklin Matthews..... (A)...	Columbia School of Journalism, New York
*Cuthbert W. Pound ... (A)...	Lockport
*J. DuPratt White ... (G)...	14 Wall St., New York
Charles H. Blood ... (B)...	Ithaca
C. Sidney Shepard ... (B)...	New Haven, Oswego Co., N. Y.
Henry W. Sackett ... (B)...	Tribune Bldg., New York
Ira A. Place ... (A)...	Grand Central Terminal, New York
Geo. J. Tansey ... (A)...	400 S. Broadway, St. Louis, Mo.
John A. Dix..... (G)...	Thomson, N. Y.
Henry R. Ickelheimer ... (B)...	P. O. Box, 1854, New York
Andrew D. White ... (B)...	Ithaca
Charles M. Schwab ... (B)...	111 Broadway, New York
Henry J. Patten ... (A)...	111 W. Jackson Blvd., Chicago
Willard D. Straight ... (A)...	120 Broadway, New York
Horace White ... (G)...	White Memorial Bldg., Syracuse
Andrew Carnegie ... (B)...	2 East 91st St., New York
Walter P. Cooke ... (B)...	1330 Marine Bank Bldg., Buffalo
Frank H. Hiscock..... (B)...	Court House, Syracuse

*Term of office expires in 1918, the next group of six in 1919, etc.; faculty representatives in 1920, 1919, 1918, respectively. B., elected by Board; A., elected by Alumni; G., appointed by Governor; F., elected by the Faculty; Gr., elected by State Grange for 1917-18.

†Died, November 26, 1917.

BOARD OF TRUSTEES

9

Herbert D. Mason(A) . .	903 Gallais Bldg., Tulsa, Okla.
James H. Edwards(A) . .	30 Church St., New York
Frank H. Miller(G) . .	146 West 54th St., New York
Jared T. Newman(B) . .	Ithaca
Mynderse VanCleaf(B) . .	Ithaca
Robert H. Treman(B) . .	Ithaca
John C. Westervelt(A) . .	36 West 34th St., New York
Mrs. Harriet T. Moody(A) . .	2970 Ellis Ave., Chicago
Thomas B. Wilson(G) . .	Hall
William F. Pratt(Gr) . .	The Meadows, Batavia
Walter F. Wilcox(F) . .	Ithaca
Dexter S. Kimball(F) . .	Ithaca
John H. Comstock(F) . .	Ithaca

Emmons L. Williams, Comptroller of the UniversityMorrill Hall, Ithaca
 Charles D. Bostwick, Treasurer of the University and Secretary of the Board
 of TrusteesMorrill Hall, Ithaca

STANDING COMMITTEES OF THE BOARD OF TRUSTEES, 1917-18

Committee on General Administration: Mynderse Van Cleaf, Chairman, J. G. Schurman, Andrew D. White, Charles E. Cornell, Roger B. Williams, James H. Edwards, Thomas B. Wilson, H. H. Westinghouse, Charles E. Treman, Cuthbert W. Pound, Robert H. Treman, Herbert D. Mason.

Committee on Finance: Roger B. Williams, Chairman, J. G. Schurman, Ira A. Place, Robert H. Treman, H. R. Ickelheimer, C. Sidney Shepard.

Committee on Buildings and Grounds: James H. Edwards, Chairman, J. G. Schurman, John C. Westervelt, Henry W. Sackett, Charles H. Blood, J. DuPratt White, Franklin Matthews.

Agricultural College Council: J. G. Schurman, Chairman, Thomas B. Wilson, Frank H. Miller, J. DuPratt White, John A. Dix, Horace White, Fred W. Sessions, Charles S. Wilson, William F. Pratt, Jared T. Newman, John C. Westervelt, Albert R. Mann, William A. Stocking, jr., T. Lyttleton Lyon.

Medical College Council: J. G. Schurman, Chairman, William M. Polk, H. R. Ickelheimer, H. H. Westinghouse, Ira A. Place, Lewis A. Connor.

Veterinary College Council: J. G. Schurman, Chairman, Thomas B. Wilson, Frank H. Miller, J. DuPratt White, John A. Dix, Horace White, Fred W. Sessions, Charles S. Wilson, William F. Pratt, Franklin Matthews, Jared T. Newman, Veranus A. Moore, Pierre A. Fish.

CORNELL UNIVERSITY

1. **The University.** Cornell University comprehends the Graduate School; the College of Arts and Sciences; the College of Law; the Medical College (including the Medical College in New York City and the Ithaca Division of the Medical College); the New York State Veterinary College; the New York State College of Agriculture; the College of Architecture; the College of Civil Engineering; and the Sibley College of Mechanical Engineering and Mechanic Arts. The New York State College of Agriculture and the New York State Veterinary College are administered by Cornell University, and their work is organically connected with that of the University.

2. **The University Faculty.** The University Faculty consists of the President who is *ex-officio* the presiding officer, and the Professors and Assistant Professors in colleges and schools of the University, along with the Librarian, the Assistant Librarians, the Registrar, and the Secretary of the University. It is the function of the University Faculty to consider questions that concern more than one special faculty, questions of University policy, and questions relating to the administration of the discipline of the University.

3. **The Faculty of the Graduate School.** The Faculty of the Graduate School consists of the President, who is *ex-officio* the presiding officer, and all Professors and Assistant Professors who are actively engaged in supervising the work of graduate students as members of the special committees in charge of major and minor subjects. Instructors who hold the Doctor's degree are also eligible for membership on the special committees in charge of the work of graduate students.

4. **The College Faculties.** Each of the remaining faculties of the University is composed of the President, who is *ex-officio* the presiding officer, and all Professors, Assistant Professors, and Instructors who give instruction in the department or departments under the charge of that Faculty; but Instructors, with the exception of those who are appointed for a term of more than one year, have not the right to vote. Subject to the right of revision by the University Faculty on all matters affecting general University policy, it is the duty of each college Faculty to determine the entrance requirements for its own students; to prescribe and define courses of study for them; to determine the requirements for such degrees as are offered to students under its jurisdiction; to recommend to the Trustees such candidates for degrees as may have completed the respective requirements for those degrees; and in general to exercise jurisdiction over all other educational matters.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

THE UNIVERSITY FACULTY AND THE SEPARATE FACULTIES

- Schurman, Jacob Gould, A.M., D.Sc., LL.D., President of the University, 1892.
Professor of Philosophy, 1886.
- Adams, Bristow, B.A., Professor of Extension, Information Service, 1914.
- Adams, Joseph Quincy, jr., A.B., A.M., Ph.D., Assistant Professor of English, 1909. Instructor, 1904.
- Albee, Ernest, A.B., Ph.D., Professor of Philosophy, 1907. Instructor, 1892; Assistant Professor, 1902.
- Albert, Calvin Dodge, M.E., Professor of Machine Design, 1916. (Absent on leave.) Instructor, 1904; Assistant Professor of Machine Design, 1908.
- Alexander, Charles Paul, B.S., Instructor in Natural History, 1915.
Assistant in Biology, 1911; Assistant in the Farm Course, 1912; Instructor in Entomology, 1914.
- Allen, Arthur Augustus, A.B., A.M., Ph.D., Assistant Professor of Ornithology, 1915. Assistant in Neurology and Vertebrate Zoology, 1906-07; Instructor, 1909; Instructor in Zoology, 1912.
- Anderson, Ross Peter, A.B., Ph.D., Assistant Professor of Chemistry, 1914. (Absent on leave.) Assistant, 1907; Instructor, 1911.
- Andrae, William Cook, M.E., Instructor in Machine Design, 1916.
- Andrews, Albert LeRoy, A.B., A.M., Ph.D., Instructor in German and Scandinavian, 1909.
- Andrews, Eugene Plumb, A.B., Assistant Professor of Archaeology and Curator of the Museum of Casts, 1911. Curator, 1897; Instructor, 1900.
- Armbruster, Fred W., Instructor in Machine Design, 1916.
- Asmus, Henry, Assistant Professor of Farriery, 1914.
- Atkinson, George Francis, Ph.B., Professor of Botany with special reference to Comparative Morphology and Mycology, College of Arts and Sciences, 1896.
Assistant Professor, 1892; Associate Professor, 1893.
- Atkinson, Harry V., M.Sc., Instructor in Physiology, 1917. New York City.
- Atkinson, Ruth V., Instructor in Physical Education, 1917.
- Atwood, Leland Leavitt, A.B., Instructor in Romance Languages, 1917.
- Austen, Willard, Librarian, 1915. Assistant Librarian, 1892.
- Ayres, Winfred Enos, Extension Instructor in Dairy Industry, 1915.
Instructor, 1914.
- Babcock, Howard Edward, Ph.B., State Leader of County Agents and Assistant Professor in Extension Service, 1917. (Absent on leave.)
Assistant State Director of Farm Bureaus, and Assistant Professor, Department of Farm Bureaus, 1914.
- Bailey, Elmer James, Ph.B., Ph.M., A.M., Ph.D., Assistant Professor of English, 1916. Assistant, 1907; Instructor in English, 1908.
- Bailey, Harold Capron, M.D., Instructor in Obstetrics, 1910. New York City.
Clinical Instructor in Surgery, 1906; Instructor in Pharmacology, 1907.
- Baker, William Charles, B.S.A., Professor of Drawing in the College of Agriculture, 1914. Instructor in Drawing in Sibley College, 1899-1904; Instructor in Outdoor Art in the College of Agriculture, 1905-06; Assistant Professor of Drawing, 1907.
- Ballard, William Cyrus, jr., M.E., Assistant Professor of Electrical Engineering, 1917. Instructor in Machine Design, 1910; Instructor in Electrical Engineering, 1911.
- Bancroft, Wilder Dwight, A.B., Ph.D., Professor of Physical Chemistry, 1903. (Absent on leave.) Assistant Professor, 1895.

- Barker, Elmer Eugene, A.B., Ph.D., Assistant Professor of Plant Breeding, 1914.
Assistant in Geology, 1910; Assistant in Entomology, 1910-11; Assistant in Plant Breeding, 1913; Instructor, 1913.
- Barnard, William Nichols, M.E., Professor of Power Engineering, 1915. (Absent on leave.)
Assistant in Machine Design, 1897; Instructor, 1898-1900; Assistant Professor, 1903; Assistant Professor of Steam Engineering, 1905; Professor, 1907.
- Barnes, Fred Asa, C.E., M.C.E., Professor of Railroad Engineering, 1915
Instructor in Civil Engineering, 1902; Assistant Professor of Railroad Engineering 1905.
- Barringer, Benjamin Stockwell, B.S., M.D., Clinical Instructor in Surgery, Department of Urology, 1914. Assistant, 1906-07.
- Barron, John Hall, B.S.A., Assistant Extension Professor of Farm Crops, 1915
- Barrows, David Nye, M.D., Instructor in Clinical Surgery, Department of Gynecology, 1916. New York City. Assistant in Clinical Surgery, Department of Gynecology, 1916.
- Barrus, Mortier Franklin, B.A., Ph.D., Extension Professor of Plant Pathology, 1914. Assistant, 1908; Assistant Professor, 1911.
- Barton, Frank Arthur, M.E. in E.E., Professor of Military Science and Tactics, 1917. Professor of Military Science and Tactics, 1904-1908.
- Bason, George Francis, B.E., M.E., Instructor in Electrical Engineering, 1916.
- Baxter, Hubert E., B.Arch., Instructor in Architecture, 1911. (Absent on leave.)
- Beal, Alvin Casey, B.S., M.S. in Agr., Ph.D., Professor of Floriculture, 1913.
Assistant, 1910; Assistant Professor, 1911.
- Bechtel, Albert Reiff, B.S., A.M., Instructor in Botany, 1915.
- Becker, Carl, B.Litt., Professor of Modern European History, 1917.
- Bedell, Frederic, A.B., Ph.D., Professor of Applied Electricity, 1904.
Instructor in Physics, 1892; Assistant Professor, 1893.
- Behrends, Fred, Instructor in Rural Engineering, 1916.
- Beitz, William Edward, C.E., Instructor in Civil Engineering, 1912.
- Benedict, Stanley R., Ph.D., Professor of Chemistry, 1912. New York City.
Assistant Professor, 1910.
- Benjamin Earl Whitney, B.S. in Agr., M.S. in Agr., Ph.D., Assistant Professor of Poultry Husbandry, 1914. Assistant, 1910; Instructor, 1911.
- Bennett, Charles Edwin, A.B., Litt.D., Goldwin Smith Professor of Latin, 1912.
Professor, 1892.
- Bennett, Hazel Buell, B.S., Instructor in Rural Education, 1917.
- Benson, John Phinneas, B.S., Instructor in Botany, 1915.
- Bentley, John, jr., B.S., M.F., Assistant Professor of Forest Engineering, 1917.
Assistant Professor Forestry, 1911.
- Berry, Charles Harold, M.E., Assistant Professor of Power Engineering, 1916.
Instructor, 1913.
- Besemer, Arthur Merle, B.S., Instructor in Dairy Industry, 1914. Assistant, 1913.
- Betten, Cornelius, M.A., Ph.D., Professor, Secretary and Registrar, College of Agriculture, 1915.
- Bidwell, Charles Clarence, A.B., Ph.D., Assistant Professor of Physics, 1917.
Assistant, 1910; Instructor, 1912-14, 1915-17.
- Bier, Robert, B.S., Extension Instructor in Vegetable Gardening, 1917.
- Birch, Raymond Russell, B.S., D.V.M., Ph.D., Assistant Professor and Superintendent of the Veterinary Experimental Station, 1916. Assistant, 1910; Instructor in Experimental Pathology, 1910; Instructor in charge of Station, 1911; Superintendent of Station, 1914.
- Birdseye, Miriam, B.A., Assistant Extension Professor of Home Economics, 1917.
Lecturer, 1914; Extension Instructor, 1914; Assistant Professor, 1914.
- Bitner, Ralph Emerson, B.S., M.S., Instructor in Physics, 1917.

- Bizzell, James Adrian, B.S., M.S., Ph.D., Professor of Soil Technology in the College of Agriculture and Federal Experiment Station, 1912.
Assistant Chemist, 1903; Assistant Professor of Soil Technology in the Federal Experiment Station, 1908.
- Blackmore, Beulah, Assistant Professor of Home Economics, 1917. Instructor, 1915.
- Blaker, Ernest, B.S., Ph.D., Assistant Professor of Physics, 1903. (Absent on leave.) Assistant, 1898; Instructor, 1901.
- Blodgett, Forest Milo, Ph.D., Assistant Extension Professor of Plant Pathology, 1917. Assistant Professor, 1915.
- Blodgett, Warren Kendall, A.B., Assistant Extension Professor of Farm Mechanics, 1917.
- Böck, Joseph Carl, Chem. E., Instructor in Chemistry, 1913. New York City.
- Bodansky, Aaron, B.S., Instructor in Biochemistry, 1917. Assistant, 1916.
- Boesche, Albert Wilhelm, A.B., Ph.D., Professor of German, 1915.
Instructor, 1905-06; Assistant Professor, 1910.
- Bogert, George Gleason, A.B., LL.B., Professor of Law, 1916. (Absent on leave.)
Assistant in American History, 1906-08; Acting Assistant Professor of Law, 1911;
Assistant Professor of Law, 1913.
- Boring, Edwin Garrigues, M.E., M.A., Ph.D., Instructor in Psychology, 1913.
Assistant, 1911.
- Boutelle, Clarence Alfred, Assistant Professor (Extension) of Animal Husbandry, 1916.
- Boyle, James Ernest, A.M., Ph.D., Extension Professor of Rural Economy, 1917.
- Boys, Jessie Austin, B.S., Instructor in Home Economics, 1917.
- Bradford, Edith Fleming, B.S., Instructor in Home Economics, 1917.
- Bradford, Louis Jacquelin, B.S., Instructor in Machine Design, 1912.
- Bradley, James Chester, A.B., M.S., Ph.D., Assistant Professor of Systematic Entomology, 1911. (Absent on leave.) Assistant, 1905-09.
- Bradley, Jesse Franklin, A.B., Instructor in English, 1916.
- Brannon, James Marshall, B.A., A.M., Instructor in Botany in the New York State College of Agriculture, 1915.
- Brauner, Olaf Martinius, Professor of Drawing and Painting in the College of Architecture, 1909. Instructor, 1895; Assistant Professor, 1898.
- Bretz, Julian Pleasant, A.B., Ph.D., Professor of American History, 1910.
Assistant Professor, 1908.
- Brewer, Sarah Lucile, B.S., Instructor in Home Economics, 1916.
- Briggs, Thomas Roland, A.B., Ph.D., Assistant Professor of Physical Chemistry and Electrochemistry, 1915. Assistant, 1909-1912.
- Bristol, George Prentice, A.B., A.M., Professor of Greek, 1898, and Director of the Summer Session, 1905.
Assistant Professor, 1888; Associate Professor, 1890; Director of the School of Education, 1910-16.
- Bromley, John Hallock, B.S., Soil Surveyor and Instructor in Soil Technology, 1917. Assistant, 1915.
- Broughton, Leslie Nathan, A.B., A.M., Ph.D., Assistant Professor of English, 1916. Instructor, 1910.
- Brown, Harold Warner, B.S., M.M.E., Instructor in Electrical Engineering, 1912.
- Browne, Arthur Wesley, B.S., M.S., Ph.D., Professor of Inorganic and Analytical Chemistry, 1910. Instructor, 1903; Assistant Professor, 1906.
- Brundage, Walter H., M.D., Instructor in Medicine, 1917. New York City.
Assistant, 1915.
- Bryant, Ralph Clement, F.E., Professor of Forest Management and Utilization, 1917. Professor of Forestry, 1917.
- Buckman, Harry Oliver, M.S.A., Ph.D., Professor of Soil Technology, 1917.
Assistant, 1910; Instructor, 1912; Assistant Professor, 1912.

- Bulkley, Kenneth, M.D., Instructor in Clinical Surgery, 1915. New York City.
(Absent on leave.)
- Bundy, Murray Wright, A.B., A.M., Instructor in English, 1914.
- Burdick, Charles Kellogg, A.B., LL.B., Professor of Law, 1914.
- Burnett, Samuel Howard, A.B., M.S., D.V.M., Professor of Comparative Pathology, 1913. (Absent on leave).
Assistant, 1899; Instructor, 1901; Assistant Professor, 1908.
- Burnham, LeRoy P., S.B., M.S. in Arch., Assistant Professor of Architecture, 1914.
- Burr, George Lincoln, A.B., LL.D., Litt.D., Librarian President White Library, 1890; Professor of Medieval History, 1902.
Instructor in Modern History, 1881-84; Instructor in Anglo-Saxon, 1886-87; Instructor in Medieval and Modern History, 1888; Assistant Professor of History, 1889; Assistant Professor of Ancient and Medieval History, 1890; Associate Professor, 1891; Professor, 1892.
- Burritt, Maurice Chase, B.S. in Agr., B.S., M.S.A., Vice-Director of Extension and Professor of Extension Teaching, 1917. Extension Professor and State Director of Farm Bureaus, 1914.
- Burrows, Earle Nelson, C.E., M.C.E., Assistant Professor of Bridge Engineering, 1915. Instructor in Civil Engineering, 1910.
- Bussell, Frank Pores, B.A., Extension Instructor in Plant Breeding, 1917.
- Buttery, Clayton Joseph, A.B., A.M., Instructor in Romance Languages, 1917.
Assistant, 1916.
- Campbell, Robert Argyll, A.B., Lecturer in Economics, 1915.
- Canfield, Ellen Brainard, Instructor in Physical Education, 1917. Instructor in Physical Training, 1894.
- Canon, Helen, B.A., B.S., Extension Instructor in Home Economics, 1917.
Assistant, 1915.
- Carpenter, Charles Wilton, D.V.M., Instructor in Obstetrics, 1917.
- Carpenter, Rolla Clinton, M.S., C.E., M.M.E., LL.D., Emeritus Professor of Experimental Engineering, 1917. Associate Professor, 1890; Professor, 1895.
- Carver, Walter Buckingham, Ph.B., Ph.D., Assistant Professor of Mathematics, 1910. Instructor, 1906.
- Cavanaugh, George Walter, B.S., Professor of Chemistry in its Relations to Agriculture, 1909. Assistant, 1891; Assistant Professor, 1903.
- Chamberlain, George Ray, M.E., Assistant Professor of Freehand Drawing in the College of Architecture, 1915. Instructor in Industrial Drawing and Art, 1902-04; Instructor in Freehand Drawing in the College of Architecture, 1906.
- Chamberlain, Robert Franklin, M.E., Instructor in Electrical Engineering, 1911.
- Chambers, Robert, jr., M.D., Instructor in Anatomy, 1916. New York City.
Assistant, 1915.
- Chamot, Emile Monnin, B.S., Ph.D., Professor of Chemical Microscopy and Sanitary Chemistry, 1910.
Assistant, 1890; Instructor, 1891; Assistant Professor, 1901.
- Chandler, Bernard Albert, B.S., M.S., Assistant Professor of Forest Utilization, 1917.
- Chandler, Wallace Larkin, Instructor in Entomology, 1915.
- Chandler, William Henry, B.S. in Agr., M.S. in Agr., Ph.D., Professor of Pomology, 1916. Professor of Research in Pomology, 1913.
- Cheney, C. O., M.D., Clinical Instructor in Medicine, Department of Psychiatry, 1917. New York City.
- Chupp, Charles, A.B., Ph.D., Extension Instructor in Plant Pathology, 1917.
Assistant, 1912; Instructor, 1914.
- Church, Irving Porter, B.C.E., C.E., Emeritus Professor of Applied Mechanics and Hydraulics, 1916.
Assistant Professor of Civil Engineering, 1876; Associate Professor, 1891; Professor of Applied Mechanics and Hydraulics, 1892-1916.

- Cilley, Arthur H., M.D., Clinical Instructor in Surgery, Department of Orthopedics, 1913. New York City. (Absent on leave).
- Clark, Charles Parsons, B.S., Extension Instructor in Farm Management, 1917. Assistant, 1915; Instructor, 1916.
- Clark, Harold Howard, M.E., Instructor in Machine Design, 1915.
- Clark, Roy Edwards, M.E., Instructor in Power Engineering, 1913.
- Claassen, Peter Walter, A.B., A.M., Instructor in Natural History, 1917. Assistant in Entomology, 1915.
- Coca, Arthur F., M.D., Instructor in Immunology, 1917. New York City. Instructor in Experimental Pathology, 1911; Instructor in Pathology, 1915.
- Cole, Lewis G., M.D., Professor of Roentgenology, 1913. New York City. Instructor, 1911.
- Coley, William B., A.B., A.M., M.D., Professor of Clinical Surgery, Department of Surgery, 1909. New York City.
- Collingwood, G. Harris, B.S., Assistant Professor (Extension) in Forestry, 1916.
- Colucci, Frank, Instructor in the Romance Languages and Literatures, 1916.
- Comstock, Anna Botsford, B.S., Assistant Professor of Nature-Study, 1913. Assistant in Nature-Studies, 1897; Lecturer in Nature-Study, 1903; Lecturer Extension Teaching, 1906; Lecturer in Nature-Study, 1907.
- Comstock, John Henry, B.S., Emeritus Professor of Entomology and General Invertebrate Zoology, 1914. Instructor in Entomology, 1873; Assistant Professor, 1876; Professor, 1882.
- Conner, Lewis Atterbury, Ph.B., M.D., Professor of Medicine, 1916. New York City. (Absent on leave). Instructor, 1898; Professor of Clinical Medicine, 1900.
- Conwell, Walter Lichtenthaeler, C.E., Assistant Professor of Railroad Engineering, 1915. Instructor in Civil Engineering, 1911.
- Cooper Lane, A.B., A.M., Ph.D., Professor of the English Language and Literature, 1915. Instructor in English, 1902; Assistant Professor, 1906.
- Cornell, Walter Rodney, B.S., Instructor in Mechanics of Engineering, 1910. (Absent on leave). Instructor in Civil Engineering, 1909.
- Craig, Clyde Firman, A.B., Ph.D., Assistant Professor of Mathematics, 1915. Assistant, 1906; Instructor, 1907.
- Craig, William Thomas, Instructor in Plant Breeding, 1915. Assistant, 1913.
- Crandall, Carl, C.E., Instructor in Civil Engineering, 1913.
- Crane, Thomas Frederick, A.B., A.M., Ph.D., Litt.D., Emeritus Professor of the Romance Languages and Literatures, 1909. Assistant Professor of South European Languages, 1868; Professor of Italian and Spanish, 1873; Professor of the Romance Languages and Literatures, 1881. Dean of the Faculty of Arts and Sciences, 1896-1902; Acting President of the University, 1899-1900; 1912-1913; Dean of the University Faculty, 1901.
- Creighton, James Edwin, A.B., Ph.D., LL.D., Sage Professor of Logic and Metaphysics, 1895. Dean of the Graduate School, 1914. Instructor in Philosophy, 1889; Associate Professor of Modern Philosophy, 1892.
- Crosby, Cyrus Richard, A.B., Extension Professor of Entomology, 1913. (Absent on leave, first term.) Entomologist, 1906; Assistant Professor of Entomological Investigations, 1909.
- Crosby, Dick J., B.S., M.S., Professor in Extension Service, 1917. Professor of Extension Teaching, 1915.
- Cross, Lewis Josephus, A.B., Ph.D., Professor of Chemistry in its Relations to Agriculture, 1914. Assistant in Chemistry, 1908; Instructor in Agricultural Chemistry, 1909; Assistant Professor, 1912.
- Curtis, Otis Freeman, M.S., Assistant Professor of Botany, 1917. Assistant in the Farm Course, 1912; Instructor in Botany, 1913.
- Curtis, Ralph Wright, B.S.A., M.S.A., Professor of Landscape Art, 1916. Assistant in Nature-Study, 1905-06; Assistant Professor, 1913.
- Cushman, Blin Sill, B.S., Instructor in Experimental Engineering, 1917. Assistant in Chemistry, 1892; Instructor in Chemistry, 1897-1907.

- Dallenbach, Karl M., A.B., A.M., Ph.D., Instructor in Psychology, 1916.
- Dana, Charles Loomis, A.M., M.D., Professor of Clinical Medicine, Department of Neurology, 1898. New York City.
- Dann, Archie Byron, B.S., Instructor in Poultry Husbandry, 1915.
Assistant, 1913.
- Dann, Hollis Ellsworth, Mus.D., Professor of Music, 1907. Instructor, 1903; Assistant Professor, 1904.
- Davenport, Herbert Joseph, Ph.B., Ph.D., Professor of Economics, 1916.
- Davidson, Hermann Christian, Ph.D., Assistant Professor of German, 1909.
Instructor, 1907.
- Davis, E. Gorton, B.S., Professor of Landscape Art, 1916. Assistant Professor of Rural Art, 1911; Assistant Professor of Landscape Art, 1912.
- Davis, Henry Kennedy, A.B., Instructor in Anatomy, 1914. Assistant, 1912.
- DeGarmo, Charles, Ph.D., Emeritus Professor of the Science and Art of Education, 1914. Professor, 1898; Dean of the Summer Session, 1898-1905.
- Dennis, Frederick Shepard, A.B., M.D., F.R.C.S., Emeritus Professor of Clinical Surgery, 1910. New York City. Professor, 1898.
- Dennis, Louis Munroe, Ph.B., B.S., Professor of Inorganic Chemistry, 1903.
Instructor in Chemistry, 1887-89; Assistant Professor of Analytical Chemistry, 1891; Associate Professor, 1894; Professor, 1900.
- Diederichs, Herman, M.E., Professor of Experimental Engineering, 1907;
in Charge of the Mechanical Laboratory, 1910.
Assistant, 1898; Instructor, 1899; Assistant Professor, 1902.
- Diederichs, Hugo N., Instructor in Machine Design, 1916. Assistant, 1915.
- Douglas, Gertrude Elizabeth, A.B., A.M., Ph.D., Instructor in Botany, 1917.
- Dresbach, Melvin, M.S., M.D., Assistant Professor of Physiology, 1910.
Instructor, 1905; Assistant Professor of Pharmacology, 1909.
- Drummond, Alexander M., A.B., A.M., Assistant Professor of Public Speaking, 1916. Instructor, 1907.
- DuBois, Eugene F., M.D., Assistant Professor of Medicine, 1917. New York City. Instructor in Applied Pharmacology, 1910; and Lecturer in Clinical Physiology, 1913.
- Durham, Charles Love, M.A., Ph.D., Professor of Latin, 1909.
Instructor, 1897; Assistant Professor, 1901.
- Dusham, Edward Henry, A.B., M.S., Instructor in Biology, 1917. Assistant in Entomology, 1916.
- Dutton, George Clayton, Extension Instructor in Dairy Industry, 1917.
- Dynes, Oliver Wesley, B.S., M.S. in Agr., Instructor in Farm Crops, 1914.
Assistant, 1910-11.
- Eames, Arthur Johnson, A.B., A.M., Ph.D., Assistant Professor of Botany in the College of Agriculture, 1914. Instructor, 1912.
- Edgar, James Clifton, Ph.B., A.M., M.D., Professor of Obstetrics and Clinical Midwifery, 1898. New York City.
- Edgerton, Henry White, A.B., Assistant Professor of Law, 1917. Acting Assistant Professor of Law, 1916.
- Eggleston, Cary, M.D., Instructor in Pharmacology, 1911. New York City.
- Ellenwood, Frank Oakes, A.B., Professor of Power Engineering, 1916. (Absent on leave.) Acting Assistant Professor, 1911; Assistant Professor, 1912.
- Elliott, George Thomson, A.B., M.D., Professor of Clinical Medicine, Department of Dermatology, 1898. New York City.
- Elliott, Robert Drane, B.S., Instructor in Electrical Engineering, 1917.
- Elmer, Herbert Charles, A.B., Ph.D., Professor of Latin, 1909.
Acting Assistant Professor, 1888; Assistant Professor, 1890.

- Elser, William James, M.D., Professor of Bacteriology, 1909. New York City.
(Absent on leave.)
Assistant in Pathology, 1901; Instructor in Bacteriology, 1904; Assistant Professor, 1908.
- Elston, Ellsworth David, A.B., A.M., Instructor in Physical Geography, 1913.
Assistant, 1912.
- Embody, George Charles, B.S., M.S., Ph.D., Assistant Professor of Aquiculture, 1912. Instructor in Neurology and Vertebrate Zoology, 1909-10; Instructor in Aquiculture, 1911.
- Emerson, Rollin Adams, B.Sc., D.Sc., Professor of Plant Breeding, 1914.
- Engeln, Oscar Diederich von, A.B., Ph.D., Assistant Professor of Physical Geography, 1912. Assistant in Dynamic Geology, 1905; Instructor, 1907.
- English, Donald, B.S., M.B.A., Assistant Professor of Economics, 1915.
Acting Assistant Professor, 1914.
- Erickson, Lawrence, B.A., Instructor in Botany, 1917. Assistant, 1915.
- Erskine, Archibald Mortimer, B.Chem., Instructor in Chemistry, 1917. Assistant, 1913.
- Everett, George Abram, A.B., LL.B., Professor of Extension Teaching, 1915.
Assistant in Elocution and Oratory, 1899-01; Instructor, 1904; Assistant Professor, 1906-07; 1910-15.
- Ewing, James, A.M., M.D., Professor of Pathology, 1899. New York City.
- Farnham, Marshall Evarts, B.S., Instructor in Floriculture, 1917.
- Farrar, Lillian K. P., Instructor in Clinical Surgery, Department of Gynecology, 1916.
- Faust, Albert Bernhardt, A.B., Ph.D., Professor of German, 1910.
Acting Assistant Professor, 1904; Assistant Professor, 1905.
- Ferguson, Jeremiah Sweetser, B.S., M.S., M.D., Secretary of the Medical Faculty, New York City, 1909. Instructor, 1898; Assistant Professor of Histology, 1908.
- Fippin, Elmer Otterbein, B.S. in Agr., Extension Professor of Soil Technology, 1911. Assistant Professor, 1905; Professor, 1909.
- Fish, Pierre Augustine, B.S., D.Sc., D.V.S., D.V.M., Professor of Veterinary Comparative Physiology and Pharmacology, 1902.
Instructor, 1890; Assistant Professor, 1896.
- Fisher, Walton Isaac, Instructor in Plant Breeding, 1917. Assistant, 1913.
- Fisk, Walter Warner, B.S. in Agr., M.S. in Agr., Assistant Professor of Dairy Industry, 1913. Assistant, 1910; Instructor, 1911.
- Fitzpatrick, Harry Morton, A.B., Ph.D., Assistant Professor of Plant Pathology, 1913. Assistant in Botany, 1908; Instructor in Plant Pathology, 1911.
- Foglesong, John Edward, B.A., M.A., Instructor in Chemistry, 1917. Assistant, 1916.
- Foster, William Silliman, A.B., Ph.D., Assistant Professor of Education, 1916.
(Absent on leave.) Assistant, 1909; Instructor in Psychology, 1913.
- Fraser, Allan Cameron, B.S., Instructor in Plant Breeding, 1914. Assistant, 1913.
- Frink, Horace Westlake, M.D., Assistant Professor of Clinical Medicine, Department of Neurology, 1917. New York City. Instructor, 1914.
- Frost, James Nathan, D.V.M., Professor of Surgery, 1917.
Assistant, 1907; Instructor, 1908; Assistant Professor, 1913.
- Gaba, Meyer G., S.B., S.M., Ph.D., Instructor in Mathematics, 1915.
- Gage, Simon Henry, B.S., Emeritus Professor of Histology and Embryology, 1908.
Instructor in Microscopy and Practical Physiology, 1877-80; Assistant Professor of Physiology and Lecturer on Micro-Technology, 1881; Associate Professor, 1889; Associate Professor of Anatomy, Histology, and Embryology, 1893; Professor, 1895; Professor of Microscopy, Histology and Embryology, 1896; Professor of Histology and Embryology, 1902.
- Gage, Victor Raymond, M.E., M.M.E., Assistant Professor of Experimental Engineering, 1912. Instructor, 1907.
- Gamble, Dean La Fever, B.S., Instructor in Zoology, 1917. Assistant, 1916.

- Garner, Enoch Francis, M.E., Instructor in Machine Design, 1913.
Instructor, 1907-10.
- Garrett, Clara L., Instructor in Drawing, 1916.
- Garrett, Seymour Stanton, C.E., Assistant Professor of Mechanics of Engineering, 1910. (Absent on leave.) Instructor in Civil Engineering, 1906-08.
- Gayman, Harvey E., B.S., Instructor in Rural Education, 1917.
- George Sidney Gonzales, C.E., Professor of Applied Mechanics, 1916.
Instructor in Civil Engineering, 1905-07; Assistant Professor of Applied Mechanics, 1908.
- Georgia, Frederick Raymond, B.Chem., Instructor in Chemistry, 1915. (Absent on leave.) Assistant, 1914.
- Gere, James Belden, M.D., Instructor in Neuro-Pathology, 1917. Assistant, 1907.
- Germann, Frank E.E., A.B., Dr. ès. Sc., Instructor in Physics, 1915.
Assistant, 1914.
- Gerster, John C. A., M.D., Instructor in Operative Surgery, 1914. New York City. (Absent on leave.)
- Gibbs, Roswell Clifton, A.B., A.M., Ph.D., Assistant Professor of Physics, 1912.
Assistant, 1906; Instructor, 1906.
- Gibson, Charles Langdon, A.B., M.D., Associate Professor of Surgery, 1917. New York City. (Absent on leave.)
Clinical Instructor in Diseases of the Genito-Urinary System, 1900; Instructor in Surgery, 1902; Professor of Clinical Surgery, 1906; Assistant Professor of Surgery, 1912.
- Gilbert, Allan H., A.B., Ph.D., Instructor in English, 1912.
- Gilkey, Royal, B.S. in Agr., Assistant Professor in Extension Service, 1917, and Supervisor of Reading Courses, 1911.
Instructor, 1911; Assistant Professor of Extension Teaching, 1914.
- Gill, Adam Capen, A.B., Ph.D., Professor of Mineralogy and Petrography, 1910.
Assistant Professor, 1894.
- Gillespie, David Clinton, A.B., M.A., Ph.D., Assistant Professor of Mathematics, 1911. Instructor, 1906.
- Gillett, Roy Lewis, B.S., Instructor in Farm Management, 1917.
- Gleason, Julia, Instructor in Home Economics, 1916.
- Globus, J. H., B.S., Instructor in Anatomy, 1917. Assistant, 1913.
- Goldberg, Samuel Alexander, D.V.M., A.M., Assistant Professor of Pathology, 1917. Assistant, 1913.
- Goodridge, Malcolm, M.D., Assistant Professor of Therapeutics, 1916. New York City. Instructor, 1910.
- Grantham, Guy Everett, A.B., Instructor in Physics, 1917. Assistant, 1916.
- Gray, Alexander M., B.Sc., E.E., Professor of Electrical Engineering, 1915.
- Greenland, Cyril Walter, B.Sc., Instructor in Geology, 1916.
- Gregory, Charles Truman, B.S. in Agr., Ph.D., Assistant Professor of Plant Pathology, 1914. Assistant, 1911; Instructor, 1912.
- Griffin, Frederick Llewellyn, Professor of Rural Education, 1916.
- Gudernatsch, J. F., Ph.D., Assistant Professor of Anatomy, 1915. New York City. Instructor, 1909.
- Guerlac, Othon Goepp, Licencié ès lettres, M.A., LL.B., Assistant Professor of Romance Languages, 1904. (Absent on leave.) Instructor, 1900.
- Guise, Cedric Hay, B.S., M.F., Instructor in Forestry, 1915. Assistant, 1914.
- Guthrie, Edward Sewall, B.S.A., M.S.A., Ph.D., Professor of Dairy Industry, 1913. Instructor and Investigator in Dairy Industry, 1908.
- Gutsell, Hiram Samuel, B.P., A.M., Assistant Professor of Freehand Drawing in the College of Architecture, 1904. Instructor in Drawing and Industrial Art, 1888; Instructor in Freehand Drawing and Modeling, 1904.

- Hagan, William Arthur, D.V.M., Instructor in Pathology and Bacteriology, 1916.
Instructor in Department of Obstetrics and Research in the Diseases of Breeding Cattle, 1916.
- Ham, Clarence Walter, B.M.E., M.E., Assistant Professor of Machine Design, 1914. (Absent on leave.) Instructor, 1907.
- Ham, Edwin Sleight, B.S., Instructor in Animal Husbandry, 1915. Assistant, 1914.
- Hamilton, George Livingstone, A.B., A.M., Ph.D., Professor of the Romance Languages and Literatures, 1916. Assistant Professor, 1911.
- Hammond, William Alexander, B.A., A.M., Ph.D., Sage Professor of Ancient Philosophy and of Aesthetics, 1908; Secretary of the University Faculty.
Instructor in Greek Philosophy, 1891; Assistant Professor of Ancient and Medieval Philosophy, 1892; Assistant Professor of Ancient and Medieval Philosophy and Aesthetics, 1903.
- Hancy, Anna Jane, A.B., A.M., Instructor in Botany, 1917. Assistant, 1911-12; 1914-17.
- Hardenburg, Earle Volcart, B.S., M.S. in Agr., Instructor in Farm Crops, 1912.
- Harper, Merritt Wesley, B.Sc., M.S., Professor of Animal Husbandry, 1913.
Assistant, 1905; Instructor, 1906; Assistant Professor, 1907.
- Harrington, Carlos Elmer, Instructor in Machine Design, 1917. Assistant, 1916.
- Harris, George William, Ph.B., Librarian, Emeritus, 1915. Died, October 11, 1917. Assistant Librarian, 1873; Acting Librarian, 1883; Librarian, 1890.
- Harris, Gilbert Dennison, Ph.B., Professor of Paleontology and Stratigraphic Geology, 1909. Assistant Professor, 1894.
- Hartwell, John Augustus, Ph.B., M.D., Professor of Clinical Surgery, 1909, and Assistant Professor of Surgery, 1911. New York City.
Instructor in Physiology, 1898; Assistant Professor, 1901.
- Haskell, Eugene Elwin, B.C.E., C.E., Dean of the College of Civil Engineering, and Professor of Experimental Hydraulics, 1906.
- Hastings, Thomas Wood, A.B., M.D., Professor of Clinical Pathology, 1907. New York City. (Absent on leave). Assistant, 1901; Instructor, 1903.
- Hatcher, Robert Anthony, Ph.G., M.D., Professor of Pharmacology, 1911; New York City. Instructor in Materia Medica, 1904; Assistant Professor of Pharmacology, 1906; Professor of Pharmacology, and Materia Medica, 1908.
- Hayden, Charles Ernest, A.B., D.V.M., Assistant Professor of Physiology, Veterinary College, 1914. Assistant, 1909; Instructor, 1910.
- Hayes, Leslie David, B.S., M.E., Assistant Professor of Machine Design, 1910. (Absent on leave.) Instructor, 1907.
- Haynes, Irving Samuel, Ph.B., M.D., D.Sc., Professor of Applied Anatomy and Clinical Surgery, 1911. New York City. Professor of Practical Anatomy, 1898.
- Hazard, Blanche Evans, A.B., M.S., Assistant Professor of Home Economics, 1914.
- Hazen, Leslie Eugene, B.S. in Agr., Assistant Professor of Farm Mechanics.
Instructor in Farm Mechanics, 1913; Instructor in Farm Structures, 1915.
- Heinecke, Arthur John, B.S.A., M.A., Ph.D., Assistant Professor of Pomology, 1917. Instructor, 1914.
- Henry, Mary Frances, A.B., Instructor in Home Economics, 1915.
- Hermannsson, Halldor, Lecturer in German, 1912. Curator of Icelandic Collection in Library, 1906. Instructor in Scandinavian Languages, 1905.
- Herrick, Glenn Washington, B.S. in Agr., Professor of Economic Entomology 1912. Assistant Professor, 1909.
- Hesler, Lexemuel Ray, A.B., Ph.D., Assistant Professor of Plant Pathology, 1914.
Instructor, 1912.
- Heuser, Gustave Frederick, B.S., M.S. in Agr., Instructor in Poultry Husbandry, 1917. Assistant, 1915.
- Hewett, Waterman Thomas, A.B., Ph.D., Emeritus Professor of German, 1910.
Assistant Professor of North European Languages, 1870; Professor of the German Language and Literature, 1883.

- Hill, Roland Hurdon, A.B., Instructor in Biochemistry, 1916.
- Hitchcock, Harry Alton, B.S., Secretary of the University and University Publisher, 1916. Died, October 17, 1917.
- Hitzrot, James Morley, A.B., M.D., Associate Professor of Clinical Surgery, 1917. New York City. Instructor, 1904; Assistant Professor, 1912.
- Hoag, Arthur E., M.D., Instructor in Surgery, 1912, and Clinical Instructor in Surgery, 1917. New York City.
- Hoguet, J. P., M.D., Instructor in Surgery, 1911. New York City.
- Hoisington, Louis Benjamin, A.B., Instructor in Education, 1917. Assistant in Psychology, 1917.
- Holladay, Edwin W., M.D., Instructor in Clinical Surgery, Department of Gynecology, 1916.
- Holland, Arthur L., Instructor in Clinical Medicine, Department of Medicine, 1915. New York City.
- Hopkins, Edwin Fraser, B.S., Instructor in Plant Pathology, 1916. Assistant, 1915.
- Hopkins, Grant Sherman, B.S., D.Sc., D.V.M., Professor of Comparative Anatomy and Anatomical Methods, 1903.
Assistant, 1889; Instructor, 1890; Assistant Professor, 1896.
- Hopper, Earle Budd, Instructor in Surgery, 1917.
- Hopper, Herbert Andrew, B.S.A., M.S., Extension Professor of Animal Husbandry, 1913. Assistant Professor, 1911.
- Hosmer, Ralph Sheldon, B.S.A., M.F., Professor of Forestry, 1914.
- Hotchkiss, Homer James, A.M., M.M.E., Instructor in Mechanics of Engineering, 1916. Instructor in Physics, 1891-1903.
- Hoy, David Fletcher, B.S., M.S., Registrar, 1895. Assistant Registrar, 1891.
- Huff, Sarah Buchanan, Instructor in Home Economics, 1917. Assistant, 1916.
- Hughes, Martin Collins, B.S. (E.E.), Instructor in Electrical Engineering, 1916.
- Hull, Charles Henry, Ph.B., Ph.D., Goldwin Smith Professor of American History, 1912. Instructor in Political and Social Institutions, 1892; Assistant Professor of Political Economy, 1893; Professor of American History, 1901; Dean of the Faculty of Arts and Sciences, 1908-13.
- Hunn, Anna Elizabeth, B.S., Instructor in Home Economics, 1916.
Assistant in Home Economics, 1912.
- Huntoon, Frank McElroy, M.D., Assistant Professor of Bacteriology, 1909. New York City. Assistant, 1905; Instructor, 1909.
- Hurd, Lewis Merwin, Extension Instructor in Poultry Husbandry, 1914.
Assistant, 1909.
- Hurwitz, Wallie Abraham, Ph.D., Assistant Professor of Mathematics, 1914.
Instructor, 1910.
- Hutchinson, John Irwin, A.B., Ph.D., Professor of Mathematics, 1910.
Instructor, 1894; Assistant Professor, 1903.
- Hutchison, Claude Burton, B.S. in Agr., M.S. in Agr., Professor of Plant Breeding, 1916.
- Irish, Shurly Russell, Instructor in Machine Design, 1917.
- Jackson, Henry Wirt, M.D., Instructor in Clinical Pathology, 1914. New York City. (Absent on leave). Assistant, 1913.
- Jackson, Howard Campbell, B.S., Instructor in Dairy Industry, 1917. Assistant, 1915.
- Jackson, Stuart Deming, A.B., Instructor in Chemistry, 1917. Assistant, 1916.
- Jacoby, Henry Sylvester, C.E., Professor of Bridge Engineering, 1897.
Assistant Professor, 1890; Associate Professor, 1894.
- Jagger, Ivan Claude, B.S. in Agr., Assistant Professor of Plant Pathology, 1914.
Instructor, 1913.
- Jeck, Harold S., M.D., Clinical Instructor in Surgery, Department of Urology, 1917. New York City.

- Jenison, Nancy, M.D., Instructor in Medicine, 1917. New York City.
- Jenness, James Russell, S.B., Instructor in Physics, 1917. Assistant, 1916.
- Johannsen, Oskar Augustus, B.S., A.M., Ph.D., Professor of General Biology, 1915. Instructor in Civil Engineering, 1899; Assistant Professor, 1904-09; Assistant Professor of Biology, 1912; Professor of Entomology, 1914.
- Johnston, James Chew, A.B., M.D., Assistant Professor of Clinical Medicine, Department of Dermatology, 1908. New York City. Demonstrator in Pathology, 1898; Instructor, 1899.
- Jones, Horace Leonard, A.B., A.M., Ph.D., Assistant Professor of Greek, 1910.
- Joyce, John Berry, B.S., Instructor in Electrical Engineering, 1917.
- Karapetoff, Vladimir, C.E., Professor of Electrical Engineering, 1908. Assistant Professor, 1904.
- Kelley, Frances Remington, B.A., Instructor in Home Economics, 1917.
- Kenerson, Albert Scott, B.S., M.S. in Agr., Instructor in Vegetable Gardening, 1915.
- Keniston, Ralph Hayward, A.B., A.M., Ph.D., Assistant Professor of the Romance Languages and Literatures, 1914.
- Kennard, Earle Hesse, B.A., Ph.D., Assistant Professor of Physics, 1917. (Absent on leave.) Assistant, 1912; Instructor, 1916.
- Kennedy, Clarence Hamilton, A.B., A.M., Instructor in Limnology, 1917. Assistant in Entomology, 1915.
- Kennedy, Robert Foster, M.D., F.R.S.E., Associate Professor of Clinical Medicine, Department of Neurology, 1917. New York City. (Absent on leave.) Instructor, 1910; Assistant Professor, 1914.
- Kennell, Lester Spruce, A.B., M.A., Instructor in Romance Languages, 1917.
- Kent, Olney Brown, B.S., M.S. in Agr., Ph.D., Assistant Professor of Poultry Husbandry, 1917. Assistant, 1913; Instructor, 1913.
- Kenyon, James H., M.D., Instructor in Clinical Surgery, Department of Surgery, 1916. (Absent on leave.)
- Kerr, Abram Tucker, B.S., M.D., Professor of Anatomy, 1904, and Secretary of the Ithaca Division of the Medical College, 1902. Assistant Professor, 1900.
- Keyes, Edward Loughboro, jr., A.B., Ph.D., M.D., Professor of Clinical Surgery, Department of Urology, 1910. New York City. (Absent on leave.) Assistant, 1898; Instructor, 1899.
- Kimball, Dexter Simpson, A.B., M.E., Professor of Machine Design and Industrial Engineering, 1915, and Acting Dean of Sibley College, 1917. Assistant Professor, 1898-1901; Acting Director of Sibley College, second term, 1911-12; Professor of Machine Design and Construction, 1904.
- King, Asa Carlton, B.S.A., Professor of Farm Practice, 1915. Extension School Instructor, 1911.
- King, Edward Riley, B.S., Assistant Professor of Entomology, 1915. (Absent on leave.)
- Kingery, Hugh McMillan, B.A., M.A., Instructor in Histology and Embryology, 1914. Assistant, 1912.
- Kingsbury, Benjamin Freeman, A.B., M.S., Ph.D., M.D., Professor of Histology and Embryology, 1908. Instructor, 1896; Assistant Professor, 1899; Assistant Professor of Physiology, Medical College, 1902.
- Kirkpatrick, Ellis Lore, B.S.A., Assistant Professor of Vegetable Gardening, 1917. Instructor, 1915.
- Knight, Harry Hazleton, B.S., Instructor in Entomology, 1916.
- Knowlton, Harry E., B.S., Instructor in Botany, 1917. Assistant, 1915.
- Knudson, Lewis, B.S.A., Ph.D., Professor of Botany, 1916. Assistant in Plant Physiology, 1908; Instructor, 1908; Assistant Professor, 1911.
- Koenig, Frederick F., D.V.M., Assistant Professor of Veterinary Medicine, 1914. Assistant, 1909; Instructor, 1910.

- Krum, Walter Gernet, Extension Instructor in Poultry Husbandry, 1917.
Assistant, 1912; Instructor, 1916.
- Kruse, Paul J., A.B., A.M., Ph.D., Assistant Professor of Rural Education, 1917.
- Lacy, Leslie Verne, B.Arch., Instructor in Architecture, 1917.
- Lambert, Alexander, A.B., Ph.B., M.D., Professor of Clinical Medicine, Department of Medicine, 1898. New York City. (Absent on leave.)
- Lauman, George Nieman, B.S.A., Professor of Rural Economy, 1909.
Assistant in Horticulture, 1897; Instructor, 1899; Instructor in Rural Economy, 1903; Assistant Professor, 1905.
- Law, James, F. R. C. V. S., Emeritus Professor of the Principles and Practice of Veterinary Medicine, 1908.
Professor of Veterinary Medicine and Surgery, 1868; Professor of the Principles and Practice of Veterinary Medicine, Veterinary Science, and Veterinary Therapeutics, 1896; Director of New York State Veterinary College and Dean of Faculty of Veterinary Medicine, 1896.
- Lawrence, Leonard Alexander, B.S., Assistant Professor of Surveying, 1916.
(Absent on leave). Instructor in Civil Engineering, 1907.
- Lee, Burton James, A.B., Ph.B., M.D., Assistant Professor of Clinical Surgery, 1916. New York City. (Absent on leave.)
Assistant Demonstrator, 1903; Demonstrator, 1904; Instructor in Clinical Surgery, 1909, and in Surgical Pathology, 1913.
- Lee, Myron A., M.E., M.M.E., Assistant Professor in Machine Design, 1916.
Instructor, 1910.
- Leland, Ora Miner, B.S. (C.E.), Professor of Astronomy and Geodesy, 1916.
(Absent on leave.) Instructor in Civil Engineering, 1903; Assistant Professor, 1906.
- Leonard, Mortimer Demarest, B.S., Extension Instructor in Entomology, 1917.
Assistant, 1912.
- L'Esperance, Elise S., M.D., Instructor in Pathology, 1911. New York City.
Assistant, 1910.
- Lilienthal, Howard, Clinical Professor of Surgery, Department of Surgery, 1917.
- Livermore, Kenneth Carter, B.S. in Agr., M.S. in Agr., Professor of Farm Management, 1913.
Instructor in Farm Crops, 1909; Instructor and Investigator, 1910; Assistant Professor of Farm Management, 1911.
- Lott, Elmo Hamilton, B.S., B.S.A., Instructor in Extension Service, 1917.
- Love, Harry Houser, B.S., M.A., Ph.D., Professor of Plant Breeding, 1917.
(Absent on leave, first term.)
Assistant, 1908; Assistant Professor of Plant Breeding in the Federal Experiment Station, 1909; Professor of Plant Breeding Investigations, 1912.
- Lumsden, David, Assistant Professor of Floriculture, 1914.
- Lusk, Graham, Ph.D., Sc.D., F.R.S. (Edin.), M.D., Professor of Physiology, 1909.
New York City.
- Lusk, William Foster, B.Ph., M.S.A., Professor of Rural Education, 1917.
- Lyon, Thomas Lyttleton, B.S. in Agr. Ph.D., Professor of Soil Technology in the Federal Experiment Station, 1906.
- McAnlis, Chauncy Ruthven, B.S. in C.E., C.E., Instructor in Civil Engineering, 1915.
- McAuliffe, George Birmingham, A.B., M.D., Clinical Instructor in Surgery, Department of Otology, 1904. New York City.
- McCaskill, Oliver Leroy, Ph.B., Professor of Procedure, 1916.
- McCurdy, John Clarence, B.S., C.E., Assistant Professor of Rural Engineering, 1916. Instructor in Civil Engineering, 1907; Instructor in Rural Engineering, 1915.
- McCurdy, John T., M.D., Lecturer on Clinical Medicine, Department of Psychiatry, 1917. New York City. (Absent on leave.) Clinical Instructor in Medicine, Department of Psycho-pathology, 1913.
- McDermott, George Robert, Professor of Structural Design, 1909. (Absent on leave.) Assistant Professor of Naval Architecture, 1892; Professor, 1905.

- McInerney, Thomas Joseph, B.S. in Agr., M.S. in Agr., Assistant Professor of Dairy Industry, 1917. Assistant, 1910; Instructor and Investigator, 1912.
- McKelvey, Joseph Vance, A.B., A.M., Ph.D., Instructor in Mathematics, 1909. (Absent on leave.)
- McKinney, Asa Emanuel, A.B., A.M., Extension Instructor in Agricultural Chemistry, 1917. Assistant, 1915.
- McMahon, James, A.B., A.M., Professor of Mathematics, 1904. Instructor, 1884; Assistant Professor, 1890.
- McNeal, Nancy Hill, Ph.B., Instructor in Home Economics, 1917.
- McVetty, Percy George, M.E., Instructor in Engineering Research, 1914. (Absent on leave.) Instructor in Mechanical Laboratory, 1913.
- Mallory, William Garfield, A.B., A.M., Instructor in Physics, 1914. Assistant, 1910-11.
- Mann, Albert Russell, B.S.A., A.M., Professor of Rural Social Organization, 1915; Dean of the College of Agriculture, Director of the Experiment Station, and Director of Extension Service, 1917.
Assistant Professor of Dairy Industry, 1908; Assistant to Director and Editor, 1908; Secretary of the College of Agriculture, 1909; Secretary, Registrar, and Professor of Agricultural Editing, 1910; Acting Dean of the College of Agriculture and Acting Director of the Experiment Station, 1916.
- Martin, Clarence Augustine, Professor of Architecture, 1904, and Dean of the College of Architecture, 1908. Instructor, 1894; Assistant Professor, 1895.
- Mason, James Frederick, A.B., Ph.D., Professor of the Romance Languages, 1914. Instructor, 1909; Assistant Professor, 1912.
- Massey, Louis Melville, A.B., Ph.D., Assistant Professor of Plant Pathology, 1917. Instructor, 1914.
- Matheson, Robert, B.S.A., M.S. in Agr., Ph.D., Assistant Professor of Economic Entomology, 1915; Assistant Entomologist of the Experiment Station, 1917. Assistant in Entomology, 1909; Assistant in Biology, 1910; Instructor, 1911; Assistant Professor, 1912; Investigator in Entomology, 1913; Assistant Professor of Entomology, 1914.
- Matthews, Robertson, M.E., Assistant Professor of Power Engineering, 1913. Instructor in Machine Design, 1907; Instructor in Power Engineering, 1908.
- Matzke, Edith H., M.D., Lecturer on Hygiene, 1916, and Adviser of Women, 1917. Acting Adviser of Women, 1916.
- Maynard, Leonard Amby, A.B., Ph.D., Assistant Professor of Animal Husbandry, 1916. (Absent on leave.)
- Meade, De Voe, B.S., Instructor in Animal Husbandry, 1915.
- Meara, Frank Sherman, A.B., Ph.D., M.D., Professor of Therapeutics, 1909. New York City.
- Meeks, Everett V., A.B., A.D.G., Acting Professor of Design in the College of Architecture, 1915.
- Merritt, Ernest George, M.E., Professor of Physics, 1903. (Absent on leave.) Instructor, 1889; Assistant Professor, 1892; Dean of the Graduate School, 1909-14.
- Midjo, Christian, Assistant Professor of Freehand Drawing in the College of Architecture, 1912. Instructor, 1909.
- Milks, Howard Jay, D.V.M., Professor of Materia Medica; Director of the Small Animal Clinic (Veterinary), 1914.
Assistant in Physiology, 1903-05; Assistant Professor of Materia Medica and Therapeutics, 1909; Professor of Therapeutics and Clinical Medicine and of Surgery of Small Animals, 1913.
- Mills, Adelbert Philo, B.S., M.S., Assistant Professor of Materials in the College of Civil Engineering, 1910. Acting Assistant Professor, 1909.
- Miltimore, Edward, M.D., Instructor in Medicine, 1917. New York City.
- Minns, Lua Alice, B.S., Instructor in Floriculture, 1914. Assistant, 1912.
- Misner, Edward Gardner, B.S., Instructor in Farm Management, 1914.
- Moler, George Sylvanus, A.B., B.M.E., Emeritus Professor of Physics, 1917. Instructor, 1875; Assistant Professor, 1880; Professor, 1911.

- Monroe, Benton Sullivan, A.B., A.M., Ph.D., Assistant Professor of English, 1912.
Assistant, 1897; Instructor, 1900.
- Montgomery, Edward Gerrard, M.A., Professor of Farm Crops, 1911.
- Montillon, Eugene Davis, B.Arch., Assistant Professor of Landscape Art, 1917.
Assistant, 1911; Instructor, 1912.
- Moore, Albertus Adair, M.D., Instructor in Obstetrics, Department of Obstetrics, 1902. New York City.
- Moore, Veranus Alva, B.S., M.D., V.M.D., Dean of the New York State Veterinary College, 1908, and Professor of Comparative Pathology, Bacteriology, and Meat Inspection, 1896.
- Mordoff, Richard Alan, B.S. in Agr., Instructor in Meteorology, 1917. Assistant in Physical Geography, 1909-10; 1912-13.
- Mordoff, William Emerson, M.E., Instructor in Machine Design, 1916.
Instructor in Rural Engineering, 1915.
- Morrill, Charles V., M.D., Instructor in Anatomy, 1915. New York City.
- Moseley, Ralph Sylvanus, Extension Instructor in Poultry Husbandry, 1914.
Assistant, 1913.
- Moses, Winifred, B.S., Instructor in Home Economics, 1917. Assistant, 1914.
- Muchmore, Guy Brooks, A.B., Assistant Professor of Public Speaking, 1913.
- Muencher, Walter Conrad, A.B., M.A., Instructor in Botany, 1917. Assistant, 1916.
- Muldoon, William Edward, D.V.M., Assistant Professor of Materia Medica and Small Animal Clinic, 1917. Instructor, 1913.
- Munford, Samuel Archer, A.B., M.D., Medical Adviser for Men, 1915; and Lecturer on Physical Diagnosis, 1916. (Absent on leave.)
- Murdock, Carleton Chase, B.S., A.M., Instructor in Physics, 1909. Assistant, 1909.
- Myers, Clyde Hadley, B.S., M.S., Ph.D., Professor of Plant Breeding, 1914.
Extension Instructor, 1911; Assistant Professor, 1912.
- Myers, William Irving, B.S., Instructor in Farm Management, 1916.
Assistant, 1914.
- Nammack, Charles Edward, Ph.B., M.D., LL.D., Professor of Clinical Medicine, Department of Medicine, 1898. New York City.
- Nammack, Charles Halpin, M.D., Clinical Instructor in Medicine, Department of Medicine, 1916. New York City. (Absent on leave.)
- Nanz, Ralph Simpson, B.S., Instructor in Botany, 1917. Assistant, 1912.
- Needham, James George, B.S., M.S., Ph.D., Professor of Entomology and Limnology, 1911. Assistant Professor, 1906.
- Nichols, Edward Leamington, B.S., Ph.D., LL.D., Professor of Physics, 1887.
Dean of the College of Arts and Sciences, 1913-15.
- Niles, Walter Lindsay, M.D., Assistant Professor of Medicine, 1917. New York City. Instructor, 1904; Assistant Professor of Clinical Medicine, 1912.
- Noble, Charles Vernon, B.S., Instructor in Farm Management, 1916.
- Norris, Charles, Ph.B., M.D., Assistant Professor of Pathological Anatomy, Department of Pathology, 1917. Instructor, 1899.
- Northup, Clark Sutherland, A.B., Ph.D., Assistant Professor of English, 1903; Librarian of the Hart Memorial Library, 1914. Assistant, 1895; Instructor, 1897.
- Nye, Claribel, B.S., Extension Instructor in Home Economics, 1917. Assistant, 1913.
- Oberndorf, Clarence P., M.D., Clinical Instructor in Medicine, Department of Neurology, 1915. New York City.
- Ogden, Henry Neely, C.E., Professor of Sanitary Engineering, 1908.
Instructor in Civil Engineering, 1889-92, 1894-98; Assistant Professor, 1898; Assistant Professor of Sanitary Engineering, 1903.
- Ogden, Robert Morris, B.S., Ph.D., Professor of Education, 1916.
- Orndorff, William Ridgely, A.B., Ph.D., Professor of Organic and Physiological Chemistry, 1903. Instructor, 1887; Assistant Professor, 1890.

- Orth, Samuel Peter, B.S., Ph.D., Professor of Political Science, 1913.
Acting Professor, 1912.
- Osterberg, Emil, Instructor in Chemistry, 1911. New York City. Assistant 1906.
- Overholser, Earle Long, B.S. in Agr., M.A., Assistant Professor of Pomology, 1917.
Instructor, 1914.
- Owens, Frederick William, Ph.D., Assistant Professor of Mathematics, 1915.
Instructor, 1907.
- Page, E. Richard, B.S., Instructor in Electrical Engineering, 1914.
- Paine, Ernest Trowbridge, A.M., Instructor in Philosophy, 1916.
Secretary of the College of Arts and Sciences, 1913.
- Palmer, Walter W., B.S., M.D., Assistant Professor of Medicine, 1917.
- Papanicolau, George, Ph.D., M.D., Instructor in Anatomy, 1917. Assistant,
1914.
- Pardee, Harold E., M.D., Instructor in Medicine, 1916. New York City.
(Absent on leave.)
- Parson, John Thomas, Assistant Professor of Drawing in the College of Civil
Engineering, 1908.
Instructor in Civil Engineering, 1895; Assistant Professor, 1903.
- Patterson, Woodford, A.B., Secretary of the University and University Pub-
lisher, 1917.
- Peck, Gilbert Warren, B.S., Extension Instructor in Pomology, 1915.
Instructor, 1913-14.
- Peirce, Clarence Andrew, A.B., M.E., Assistant Professor of Machine Design,
1916. (Absent on leave.)
Instructor in Machine Design, 1911; Instructor in Power Engineering, 1913.
- Perkins, Harold Charles, M.E., Instructor in Mechanics of Engineering, 1916.
- Perry, John E., Instructor in Railroad Engineering, 1915.
- Pertsch, John George, jr., M.E., Assistant Professor of Electrical Engineering,
1916. Assistant, 1909; Instructor, 1910.
- Phelps, Albert Charles, B.S., M.Arch., Professor of Architecture, 1913.
Instructor, 1899; Assistant Professor, 1903.
- Phillips, Harold Deane, A.B., B.S. in Agr., Instructor in Rural Economy, 1914.
- Phipps, George Robinson, B.S., Instructor in Extension Service, 1917. Assistant,
1916.
- Pickens, Earl Max, D.V.S., A.M., Professor of Diagnosis (Veterinary), 1917.
Assistant, 1911; Instructor, 1912; Assistant Professor, 1914.
- Pidgeon, Howard A., B.S.S., M.S.S., Instructor in Physics, 1914. Assistant, 1913.
- Pierce, Harold F., A.B., Instructor in Physiology, 1917.
- Polk, William Mecklenburg, M.D., LL.D., Professor of Clinical Surgery, Depart-
ment of Gynecology, 1898; Dean of the Medical College, 1898. New York
City.
- Pond, Miles Albion, Ph.B., Assistant Professor of Civil Engineering, 1907.
Instructor, 1902.
- Pope, Paul Russel, A.B., Ph.D., Professor of German, 1915.
Instructor, 1902; Assistant Professor, 1906.
- Prescott, Frederick Clark, A.B., Assistant Professor of English, 1903.
Assistant Professor of Rhetoric, 1897.
- Pumpelly, Laurence, A.B., Ph.D., Assistant Professor of the Romance Languages
and Literatures, 1914. Assistant in Chemistry, 1908-09; Instructor in the Romance
Languages and Literatures, 1910.
- Putnam, Joseph Franklin, M.E., Assistant Professor of Electrical Engineering,
1916. Instructor, 1910-12.
- Quarles, James T., University Organist, 1913, and Assistant Professor of Music,
1916.
- Quick, Ray Lewis, M.E., Instructor in Experimental Engineering, 1917.

- Rankin, William Howard, A.B., Ph.D., Assistant Professor of Plant Pathology, 1914. Instructor, 1912.
- Ranum, Arthur, A.B., Ph.D., Assistant Professor of Mathematics, 1910. Assistant, 1904; Instructor, 1906.
- Recknagel, Arthur Bernhard, B.A., M.F., Professor of Forest Management and Utilization, 1917. (Absent on leave.) Professor of Forestry, 1913.
- Reddick, Donald, A.B., Ph.D., Professor of Plant Pathology, 1911. Assistant in Botany, 1905; Assistant in Plant Physiology, 1907; Instructor, 1908; Assistant Professor of Plant Pathology, 1909.
- Reed, Harold Lyle, A.B., Ph.D., Assistant Professor of Economics, 1916. Instructor, 1914-15.
- Reed, Hugh Daniel, B.S., Ph.D., Assistant Professor of Zoology, 1915. Assistant, 1900; Instructor, 1902; Assistant Professor of Neurology and Vertebrate Zoology, 1906.
- Rees, Ralph W., A.B., B.S., Extension Professor of Pomology, 1917. Professor, 1916.
- Reese, Robert Grigg, Ph.G., M.D., Professor of Clinical Surgery, Department of Ophthalmology, 1911. New York City. Clinical Assistant, 1898; Instructor, 1899.
- Rettger, Ernest William, A.B., Ph.D., Assistant Professor of Applied Mechanics, 1908. Instructor in Civil Engineering, 1907.
- Reyna, Juan Estevan, E.E., Assistant Professor of Agricultural Drawing, 1917. Instructor, 1912.
- Rice, Frank Elmore, A.B., Ph.D., Assistant Professor of Chemistry in its Relations to Agriculture, 1916. Assistant, 1909; Instructor, 1912.
- Rice, James Edward, B.S. in Agr., Professor of Poultry Husbandry, 1907. Assistant, 1892-93; Assistant Professor, 1903.
- Richards, John Harold, M.D., Instructor in Clinical Pathology and Medicine, 1911. New York City. Assistant, 1907.
- Richardson, Lawrence, M.E., Instructor in Experimental Engineering, 1917.
- Richtmyer, Floyd Karker, A.B., Ph.D., Assistant Professor of Physics, 1911. Assistant, 1903-04; Instructor, 1906.
- Rider, Arthur John, B.S., M.S., Instructor in Chemistry, 1917. Assistant, 1916.
- Ries, Heinrich, Ph.B., A.M., Ph.D., Professor of Geology, 1906. Instructor, 1898; Assistant Professor, 1902.
- Riley, Howard Wait, M.E., Professor of Rural Engineering, 1912. (Absent on leave, first term.) Instructor in Experimental Engineering, 1906; Instructor in Farm Mechanics, 1907; Assistant Professor, 1909.
- Riley, William Albert, B.S., Ph.D., Professor of Insect Morphology and Parasitology, 1912. Assistant, 1899; Instructor, 1901; Assistant Professor, 1906.
- Robb, Byron Burnett, B.S. in Agr., M.S. in Agr., Assistant Professor of Rural Engineering, 1913. Assistant in Farm Mechanics, 1910; Instructor, 1911.
- Roberts, Isaac Phillips, M.Agr., Emeritus Professor of Agriculture, 1903. Assistant Professor of Agriculture, 1873; Professor of Agriculture, 1874; Director of Agricultural Experiment Station, 1888; Director of College of Agriculture, 1890; Dean of Faculty of Agriculture, 1896; Lecturer in Agriculture, 1903-06.
- Robinson, Montgomery, Litt.B., B.S., Assistant Professor in Extension Service, 1917. Assistant, 1913; Instructor, 1914; Assistant Professor of Extension Teaching, 1916.
- Rodgers, Ralph Chapman, M.E., A.M., Instructor in Physics, 1907. Assistant, 1905.
- Rogers, Fred Stillman, B.S., M.E., Instructor in Machine Design, 1914.
- Rogers, John, A.B., Ph.D., M.D., Professor of Clinical Surgery, Department of Surgery, 1909. New York City. Instructor, 1898.
- Rose, Flora, B.S., M.A., Professor of Home Economics, 1911. Lecturer, 1907.
- Ross, Harold Ellis, B.S.A., M.S. in Agr., Professor of Dairy Industry, 1912. (Absent on leave, first term.) Assistant, 1906; Instructor, 1907; Assistant Professor, 1909.

- Rowlee, Willard Winfield, B.L., D.Sc., Professor of Botany in the College of Arts and Sciences, 1906. Instructor, 1889; Assistant Professor, 1893.
- Royce, Charles Howard, B.S. in Agr., M.S. in Agr., Assistant Professor (Extension) of Animal Husbandry, 1916.
- Saby, Rasmus S., Ph.D., Assistant Professor of Political Science, 1912. Assistant, 1909; Instructor in Economics, 1910.
- Sampson, Martin Wright, B.A., M.A., Goldwin Smith Professor of English Literature, 1912. Acting Professor, 1908; Professor, 1909.
- Samuels, Bernard, M.D., Clinical Instructor in Surgery, Department of Ophthalmology, 1915. New York City.
- Savage, Elmer Seth, B.S. in Agr., M.S. in Agr., Ph.D., Professor of Animal Husbandry, 1913. Assistant, 1907; Instructor, 1908; Assistant Professor, 1910.
- Sawdon, Will Miller, B.S. in M.E., M.M.E., Assistant Professor of Mechanical Engineering, 1908. Instructor, 1904.
- Schelleng, John Christopher, A.B., Instructor in Physics, 1915. Assistant, 1915.
- Schmidt, Nathaniel, A.B., A.M., Professor of Semitic Languages and Literatures, 1896.
- Schneck, Henry William, B.S.A., M.S.A., Assistant Professor of Vegetable Gardening, 1917. Instructor, 1913.
- Schoder, Ernest William, B.S., Ph.D., Assistant Professor of Experimental Hydraulics, 1905. (Absent on leave.) Engineer in charge of the Hydraulic Laboratory, 1904.
- Schramm, Jacob Richard, A.B., Ph.D., Professor of Botany in the New York State College of Agriculture, 1917. Assistant Professor, 1915.
- Schultze, Otto Henry, A.B., M.D., Assistant Professor of Pathological Anatomy, 1908, and Professor of Medico-Legal Pathology, 1912. New York City. Instructor, 1898; Lecturer, 1904.
- Schumm, Paul Berwig, B.S., M. in L.D., Instructor in Landscape Art, 1917. Assistant in Medieval History, 1915.
- Schwartz, Hans Jörgen, M.D., Instructor in Clinical Medicine, Department of Dermatology, 1917. New York City, Assistant, 1903; Clinical Instructor, 1906.
- Scoville, Gad Parker, B.S. in Agr., Assistant Extension Professor of Farm Management, 1917. Assistant Professor, 1914.
- Seery, Francis Joseph, Bach. Mech. Sci., Assistant Professor of Civil Engineering, 1907. Instructor, 1905.
- Seulke, Karl John, B.S., M.S., Ph.D., Assistant Professor of Animal Husbandry, 1917. Instructor in Animal Husbandry, 1914.
- Severance, Mildred, A.B., Instructor in Physics, 1917. Assistant, 1913.
- Shadle, Albert Ray, B.A., M.A., Instructor in Zoology, 1916. Assistant, 1915.
- Shaffer, Newton Melman, M.D., Emeritus Professor of Clinical Surgery, Department of Orthopedics, 1912, and of Orthopedic Surgery, 1913. Professor of Orthopedic Surgery, 1898; Professor of Orthopedics, 1900; Professor of Clinical Surgery, Department of Orthopedics, 1906-11.
- Shannon, William, A.B., M.D., Clinical Instructor in Medicine, Department of Pediatrics, 1899. New York City.
- Sharp, Lester Wayland, B.S., Ph.D., Assistant Professor of Botany in the College of Agriculture, 1916. Instructor, 1914.
- Sharpe, Francis Robert, B.A., Ph.D., Assistant Professor of Mathematics, 1910. Assistant, 1905; Instructor, 1906.
- Shearer, John Sandford, B.S., Ph.D., Professor of Physics, 1909. (Absent on leave.) Assistant, 1893; Instructor, 1894; Assistant Professor, 1903.
- Sheldon, William Hills, M.D., Assistant Professor of Clinical Medicine, 1916. New York City. Assistant, 1910; Instructor, 1911.

- Sicard, Montgomery Hunt, B.S., M.D., Instructor in Therapeutics, 1910. New York City. (Absent on leave.) Instructor in Physical Diagnosis, 1901-17.
- Silverman, Louis Lazarus, A.B., A.M., Ph.D., Instructor in Mathematics, 1909. (Absent on leave.)
- Simpson, Sutherland, D.Sc., M.D., F.R.S.E., Professor of Physiology, 1908.
- Smiley, Edwina Maria, B.A., Instructor in Plant Pathology, 1917. Assistant, 1916.
- Smith, Albert William, B.M.E., M.M.E., Professor of Power Engineering, and Dean of Sibley College, 1904. (Absent on leave.)
Assistant Professor, 1887-91.
- Smith, Ernest Edward, A.B., Instructor in Physics, 1917. Assistant, 1916.
- Smith, Frederick Miller, A.B., Instructor in English, 1910.
- Smith, Gladys Elizabeth, B.S., Instructor in Home Economics, 1917.
- Smith, Harmon, A.B., M.D., Professor of Clinical Surgery, Department of Laryngology and Rhinology, 1913.
- Smith, Mark J., B.S., Assistant Extension Professor of Animal Husbandry, 1917.
- Snyder, Virgil, B.S., A.M., Ph.D., Professor of Mathematics, 1910.
Instructor, 1895; Assistant Professor, 1903.
- Somers, Ransom Evarts, A.B., A.M., Ph.D., Assistant Professor of Geology, 1916.
Instructor, 1912.
- Soule, William L., M.D., Clinical Instructor in Anaesthesia, Department of Surgery, 1916. New York City. (Absent on leave.)
- Spaulding, Harry Van Ness, M.D., Instructor in Operative Surgery, 1914. New York City.
- Spring, Samuel Newton, A.B., M.F., Professor of Silviculture, 1917. (Absent on leave.) Professor of Forestry, 1912.
- Stacy, Thomas Ford, Instructor in Machine Design, 1917.
- Stagg, Charles Tracey, LL.B., Professor of Law, and Secretary of the College, 1914. Instructor, 1908; Assistant Professor of Law, 1909.
- Steiner, Joseph M., B.S., M.D., Instructor in Roentgenology, 1917. New York City. (Absent on leave.)
- Stephens, Richmond, M.D., Clinical Instructor in Surgery, Department of Orthopedic Surgery, 1917. New York City. (Absent on leave.)
- Stevens, Shepherd, A.B., A.D.G., Assistant Professor of Architecture, 1915.
- Stewart, Ralph Berry, M.E., Instructor in Electrical Engineering, 1916.
- Stewart, Vern Bonham, B.A., Ph.D., Assistant Professor of Plant Pathology, 1913. Investigator, 1912.
- Stillman, Ralph G., M.D., Instructor in Clinical Medicine, 1912. New York City. (Absent on leave.)
- Stimson, Lewis Atterbury, A.B., M.D., LL.D., Professor of Surgery, 1898. New York City. Died September 17, 1917.
- Stobbs, William Malcolm, A.B., Instructor in Anatomy, 1917. Assistant, 1914.
- Stockard, Charles Rupert, B.S., M.S., Ph.D., Professor of Anatomy, 1911. New York City. Assistant in Embryology and Histology, 1906; Instructor in Comparative Morphology, 1908; Assistant Professor, 1909.
- Stocker, George P., B.S. in C.E., Instructor in Civil Engineering, 1916.
- Stocking, William Alonzo, jr., B.Agr., B.S.A., M.S. in Agr., Professor of Dairy Industry, 1909.
Assistant Professor, 1906; Acting Director of the College of Agriculture, 1913-14.
- Stone, John Lemuel, B.Agr., Professor of Farm Practice, 1907.
Assistant, 1897; Assistant Professor, 1903.
- Strachstein, Abraham, M.D., Clinical Instructor in Surgery, Department of Urology, 1916. New York City.

- Strahan, James Lewis, B.S. in Agr., M.S. in Agr., Instructor in Rural Engineering, 1913. Assistant in Military Science and Tactics, 1911-12.
- Strunk, William, jr., A.B., Ph.D., Professor of English, 1909. Instructor, 1891; Assistant Professor, 1899.
- Sturgis, Cony, A.B., Instructor in the Romance Languages, 1915. Instructor, 1908-10.
- Sumner, James Batcheller, Ph.D., Assistant Professor of Biochemistry in the Department of Physiology, 1914.
- Sunderville, Earl, D.V.M., Assistant Professor of Veterinary Anatomy, 1913. Assistant, 1908; Instructor, 1909.
- Supplee, George Cornell, B.S., M.S. in Agr., Instructor in Dairy Industry, 1914. Assistant, 1912.
- Sweet, Alfred Henry, A.B., A.M., Ph.D., Acting Assistant Professor of English History, 1917. Assistant, 1914-15.
- Swift, Homer F., M.D., Director and Associate Professor, Medical Clinic, Bellevue Hospital, 1917. New York City. (Absent on leave.)
- Switzer, Frederick George, M.E., Assistant Professor of Hydraulics, 1917. Instructor, 1916.
- Tailby, George Walter, jr., B.S.A., Instructor and Superintendent of Live Stock, 1907.
- Tanner, John Henry, B.S., Ph.D., Professor of Mathematics, 1904. Instructor, 1892; Assistant Professor, 1894.
- Tappan, Frank Girard, A.B., M.E., M.A., Instructor in Electrical Engineering, 1907.
- Taylor, Alfred S., M.D., Professor of Operative Surgery, 1914. New York City. Lecturer on the Peripheral Nervous System, 1910; Lecturer on Surgery, 1911; Assistant Professor of Operative Surgery, 1913.
- Thayer, Clark Leonard, B.Sc., Instructor in Floriculture, 1915. Assistant, 1914.
- Thilly, Frank, A.B., Ph.D., LL.D., Professor of Philosophy, 1906; and Dean of the College of Arts and Sciences, 1915. Instructor, 1892-93.
- Thomas, Allen Job, A.B., LL.B., Ph.D., Instructor in Philosophy, 1917. Assistant, 1915.
- Thomas Cecil Calvert, A.B., A.M., Instructor in Botany in the College of Agriculture, 1913.
- Thomas, Charles Edwin, M.E., Instructor in Experimental Engineering, 1914.
- Thompson, William Gilman, Ph.B., M.D., Emeritus Professor of Medicine, 1916. New York City. Professor of Medicine, 1898.
- Thro, William Crooks, B.S.A., A.M., M.D., Assistant Professor of Clinical Pathology, 1910. New York City. Assistant, 1901; Instructor, 1902-05; 1910.
- Titchener, Edward Bradford, A.B., A.M., Ph.D., LL.D., D.Sc., Litt.D., Sage Professor of Psychology in the Graduate School, 1910; Lecturer in Psychology, 1912. Assistant Professor, 1892; Professor, 1895.
- Titworth, Bertha E., A.B., B.S., Assistant Extension Professor of Home Economics, 1917. Instructor, 1913.
- Tjomsland, Anna, A.B., M.D., Clinical Instructor in Anaesthesia, 1916. New York City. Assistant in Extension Teaching in College of Agriculture, 1909-10.
- Tobey, Clinton Russell, Instructor in Machine Design, 1917.
- Torrey, John Cutler, A.B., Ph.D., Professor of Hygiene, 1915. New York City. Assistant Instructor, 1903; Instructor and Lecturer on Hygiene, 1909; Assistant Professor of Experimental Pathology, 1910.
- Townsend, Clarence Ellsworth, M.E., Instructor in Machine Design, 1910.
- Trevor, Joseph Ellis, Ph.D., Professor of Thermodynamics, 1908. Assistant Professor of Chemistry, 1892; Assistant Professor of General and Physical Chemistry, 1894; Professor, 1900; Professor of Physical Chemistry, 1903.

- Troy, Hugh Charles, B.S. in Agr., Professor of Dairy Industry, 1912.
Assistant, 1897.
- Turner, Kenneth Bertrand, C.E., M.C.E., Assistant Professor of Hydraulics, 1908.
Instructor in Civil Engineering, 1906.
- Turnure, Percy R., M.D., Assistant Professor of Clinical Surgery, Department of Surgery, 1916. New York City. (Absent on leave.)
- Tuttle, Edward Mowbray, B.S. in Agr., A.B., Assistant Extension Professor of Rural Education, 1917.
Assistant, 1911; Instructor, 1912; Assistant Professor, 1914.
- Tyler, Charles Mellen, A.B., A.M., D.D., Emeritus Professor of the History and Philosophy of Religion and of Christian Ethics, 1906.
Professor, 1891; Lecturer, 1903-06.
- Tyrrell, William David, M.D., Clinical Instructor in Medicine, Department of Pediatrics, 1908. New York City.
- Udall, Denny Hammond, B.S.A., D.V.M., Professor of Veterinary Medicine and Director of Ambulatory Clinic, 1910.
Demonstrator, 1900-1; Acting Professor, 1908.
- Underwood, Paul Halladay, C.E., Assistant Professor of Topographic and Geodetic Engineering, 1912. Instructor in Civil Engineering, 1907.
- Upton, George Burr, M.E., M.M.E., Assistant Professor of Experimental Engineering, 1910. Instructor, 1905.
- Urquhart, Leonard Church, C.E., Instructor in Civil Engineering, 1911.
- Usher, Abbott Payson, A.B., A.M., Ph.D., Assistant Professor of Economics, 1914. Instructor, 1910.
- Vance, Benjamin, M.D., Instructor in Surgical Pathology and Pathologist to the Second Division, Bellevue Hospital, 1915. New York City. (Absent on leave.)
- Vandegrift, George W., A.M., M.D., Clinical Instructor in Surgery, Department of Ophthalmology, 1911. New York City.
- Van Dyke, Edwin Cooper, B.S., M.D., Assistant Professor of Systematic Entomology, 1917.
- Van Rensselaer, Martha, A.B., Professor of Home Economics, 1911.
Supervisor of Farmer's Wives' Reading Course, 1903; Lecturer, 1907.
- Volz, Emil Conrad, B.S., Instructor in Floriculture, 1915.
- Walker, Charles Leopold, C.E., Assistant Professor of Sanitary Engineering, 1912.
Instructor in Civil Engineering, 1905; Assistant Professor of Applied Mechanics, 1908.
- Wallace, Charleton, M.D., Professor of Clinical Surgery, Department of Orthopedic Surgery, 1914. New York City. Assistant Professor, 1913.
- Wann, Frank Burkett, B.S., Instructor in Botany, 1915.
- Ward, George Gray, jr., M.D., Associate Professor of Clinical Surgery, Department of Gynecology, 1917. Instructor, 1898; Assistant Professor, 1916.
- Warner, Annette J., Assistant Professor of Home Economics, 1917.
Assistant Professor of Design in the Department of Home Economics, 1913.
- Warren, George Frederick, jr., B.Sc., B.S.A., M.S.A., Ph.D., Professor of Farm Management, 1909. Assistant Professor of Agronomy, 1906.
- Warsaw, Wesley Worth, B.S. in A.E., Assistant Extension Professor of Soil Technology, 1916. Instructor, 1914.
- Way, Walter Denslow, D.V.M., Instructor in Medicine, 1917.
- Weil, Richard, A.B., A.M., M.D., Assistant Professor of Experimental Medicine, 1911. New York City. Deceased.
Demonstrator, 1904; Assistant, 1908; Instructor, 1909.
- Weld, Harry Porter, Ph.B., Ph.D., Assistant Professor of Psychology, 1912.
- Wells, Albert Edward, Professor of Machine Construction, 1916.
Foreman of Machine Shop, 1904; Superintendent of Shops, 1905; Assistant Professor, 1912.

- Welsh, Thomas Whitney Benson, A.B., Ph.D., Instructor in Chemistry, 1909.
(Absent on leave.) Assistant, 1907.
- Wheeler, Ralph Hicks, B.S.A., Assistant Professor in Extension Service, 1917.
Assistant, 1909; Instructor, 1910; Assistant Professor of Extension Teaching, 1912.
- Whetzel, Herbert Hice, A.B., A.M., Professor of Plant Pathology, 1909.
Assistant, 1903; Assistant Professor, 1906.
- White, Andrew Curtis, A.B., Ph.D., Reader in Greek, 1903, and Assistant Librarian, 1889. Instructor in Latin, 1885-86; Instructor in Greek and Latin, 1886-88; Instructor in Latin, 1888-89; Instructor in Greek, 1898-99; Reader in Greek, 1899-1901.
- White, Edward Albert, B.S., Professor of Floriculture, 1913.
- Whiting, Frederick, A.M., M.D., Professor of Clinical Surgery, Department of Otology, 1904. New York City.
- Whiting, William Alonzo, B.S., Instructor in Dairy Industry, 1917.
- Whitney, Cass Ward, B.S., Instructor in Extension Service, 1917.
Instructor in Extension Teaching, 1913.
- Wichelns, Herbert August, A.B., Instructor in Public Speaking, 1917.
Assistant, 1916.
- Wiegand, Karl McKay, B.S., Ph.D., Professor of Botany in the College of Agriculture, 1913. Assistant, 1894; Instructor, 1899-07.
- Wiggans, Roy Glen, B.S. in Agr., M.S. in Agr., Instructor in Farm Crops, 1915.
Assistant, 1914.
- Wiggers, Carl J., M.D., Assistant Professor of Physiology, 1913. New York City.
Instructor, 1911.
- Wilder, Burt Green, B.S., M.D., Emeritus Professor of Neurology and Vertebrate Zoology, 1910.
Professor of Comparative Anatomy and Zoology, 1867; Professor of Physiology, Anatomy, and Zoology, 1878; Professor of Physiology, Vertebrate Zoology and Neurology, 1893; Professor of Neurology and Vertebrate Zoology, 1905.
- Wilkinson, Albert Edmund, B.S., Extension Instructor in Vegetable Gardening, 1913. Instructor and Investigator, 1912.
- Willcox, Walter Francis, A.B., LL.B., A.M., Ph.D., LL.D., Professor of Economics and Statistics, 1910.
Instructor in Logic, 1891; Assistant Professor of Social Science and Statistics and Political Economy, 1892; Assistant Professor of Social Science and Statistics, 1893; Associate Professor, 1894; Professor, 1898; Professor of Political Economy and Statistics, 1901; Dean of the Faculty of Arts and Sciences, 1901-07.
- Williams, Henry Shaler, Ph.B., Ph.D., Emeritus Professor of Geology, 1912.
Assistant Professor, 1879; Assistant Professor of Paleontology, 1880; Professor 1884; Professor of Geology and Paleontology, 1886-92; Dean of the General Faculty, 1887-88; Professor of Geology, 1904.
- Williams, Walter Long, Professor of Obstetrics and Research and Professor of the Diseases of Breeding Cattle, 1915.
Professor of Principles and Practice of Veterinary Surgery, Zootechny, Obstetrics, and Jurisprudence, 1896; Professor of Veterinary Surgery and Obstetrics and Investigator of Diseases of Young Animals and Breeding Cattle, 1914.
- Williamson, Harvey C., M.D., Instructor in Obstetrics, 1917. New York City.
- Wilson, Benjamin Dunbar, B.S., M.S., Instructor in Soil Technology, 1917.
Assistant, 1915.
- Wilson, James Kenneth, B.S., Ph.D., Assistant Professor of Soil Technology, 1914.
Assistant in Plant Physiology, 1912; Instructor and Investigator in Botany, 1913.
- Wilson, Wilford Murry, M.D., Professor of Meteorology, 1910.
Lecturer, 1906; Instructor, 1907.
- Winans, James Albert, A.B., A.M., LL.B., Professor of Public Speaking, 1914.
Instructor, 1899; Acting Assistant Professor, 1901; Instructor, 1903; Assistant Professor, 1904.
- Wing, Henry Hiram, B.Agr., M.S. in Agr., Professor of Animal Husbandry, 1903.
Instructor in Dairy Industry, 1890; Assistant Professor of Animal Husbandry and Dairy Industry, 1891.

- Wing, Lucius A., B.S., M.D., Clinical Instructor in Surgery, 1912. New York City.
- Winters, Joseph Edcil, M.D., Professor of Clinical Medicine, Department of Pediatrics, 1898. New York City.
- Wood, Edgar Harper, M.E., M.M.E., Professor of Mechanics of Engineering, 1910. Instructor in Drawing, 1899; Assistant Professor of Machine Design, 1907.
- Woodruff, Edwin Hamlin, LL.B., Professor of Law, 1896; Dean of the College of Law, 1916. Instructor in English, 1888-90; Acting Dean, 1914-16.
- Woolsey, George, A.B., M.D., Professor of Clinical Surgery and Anatomy, 1898. New York City.
- Worcester, James, M.D., Instructor in Clinical Surgery, 1915. New York City. (Absent on leave.)
- Work, Paul, A.B., B.S., M.S. in Agr., Acting Professor of Vegetable Gardening, 1917. (Absent on leave.)
Instructor and Investigator in Vegetable Gardening, 1910.
- Works, George Alan, Ph.B., M.S. in Agr., Professor of Rural Education, 1914.
- Worn, George Austin, Instructor in Machine Design, 1916.
- Wright, Albert Hazen, A.B., A.M., Ph.D., Assistant Professor of Zoology, 1915. Assistant in Neurology, and Vertebrate Zoology, 1905; Instructor, 1908.
- Wright, W. W., M.D., Clinical Instructor in Medicine, Department of Psychiatry, 1912. New York City.
- Wyckoff, Ralph W. G., B.S., Instructor in Chemistry, 1917.
- Young, Allyn Abbott, Ph.B., Ph.D., Professor of Economics and Finance, 1913. (Absent on leave.)
- Young, Benjamin Percy, B.S., Instructor in Entomology, 1917.
- Young, Charles Van Patten, A.B., Professor of Physical Education and Director of the Gymnasium, 1906. Acting Professor, 1904.
- Young, George, jr., B.Arch., Professor of the Theory of Construction in the College of Architecture, 1915. (Absent on leave).
Assistant Professor, 1909.
- Young, Helen Binkerd, B.Arch., Assistant Professor of Home Economics, 1911. Instructor, 1910.
- Zapata y Torres, Miguel, Instructor in the Romance Languages, 1917.
- Zimm, Louis Arthur, B.S., Instructor in Plant Pathology, 1916.
Assistant in Forestry 1915.
- Zinnecker, Wesley Daniel, Ph.B., Instructor in German, 1910.

ASSISTANTS

- Alexander, William Pringle, Natural History.
- Allen, Charles Loring, A.B., Animal Husbandry.
- Anderson, Ernest Gustaf, B.Sc. A., Plant Breeding.
- Armstrong, Edward McPherson, M.D., Clinical Surgery.
- Atwood, George Edward, Dairy Industry.
- Babcock, Norman Clark, Chemistry.
- Baerg, William, J., A.B., Entomology.
- Banks, David Houser, Electrical Engineering.
- Banta, Luther, Junior Project Work in Agriculture.
- Barr, David Preswick, A.B., M.D., Chemistry, New York City. (Absent on leave.)
- Beekman, Fenwick, M.D., Clinical Surgery, New York City. (Absent on leave.)
- Behr, Leo, Power Engineering.
- Bergstein, Samuel, Zoology.
- Bernheim, (Mrs.) G. B., A.B., Chemistry, New York City.
- Billings, William Arthur, Diagnosis, Veterinary.

Bishop, Homer Guy, B.S., M.S., A.M., Psychology.
Blackwell, Carl Petty, B.S., M.S., Farm Crops.
Bohannon, Charles D., A.B., Rural Education.
Bohrer, Jack V., M.D., Clinical Surgery, New York City.
Boies, Charles Dwight, Economics.
Bolling, Richard W., M.D., Clinical Surgery, New York City.
Botsford, Harold Eugene, Poultry Husbandry.
Boucher, Henry Negus, Landscape Art.
Brandes, George Henry, Chemistry.
Bregger, Thomas, B.S., Plant Breeding. (Absent on leave.)
Bremer, Harry Earl, B.S., Dairy Industry.
Brooks, Charles Albert, Forge Shop.
Burlage, Stanley Ross, Physiology.
Burr, Emily T., A.B., Pathology, New York City.
Bush, Howard Stanley, Wood Shop.
Bussey, Robert Edgar, Experimental Engineering.
Button, Forest Clifton, B.S., Dairy Industry.
Cassassa, Charles, S.B., A.B., M.D., Pathological Anatomy, New York City.
Cecil, Russell L., M.D., Clinical Pathology, New York City. (Absent on leave.)
Chapman, Wilbur Fisk, C.A.B., Political Science.
Chappell, John Thomas, B.S., Chemistry.
Chesebrough, M. Arlouine, Zoology.
Childs, George Henshaw, B.A., M.A., Zoology.
Christensen, John, Theme Reader, English.
Christian, Cyrus Marvin, Zoology.
Clark, Lee Hinchman, Chemistry.
Cohn, Philip, Forestry.
Collin, Henry Arthur, Experimental Engineering.
Colony, Myron Wesley, Chemistry.
Conklin, Elbert Ernest, jr., B.S., Vegetable Gardening.
Connolly, Paul Tehan Ignatius, Veterinary.
Cooke, Gaylord Kell, Veterinary Anatomy.
Cornwell, Ralph Thomas Kline, Chemistry.
Corrington, Julian Dana, A.B., Zoology.
Coryell, Jay, Assistant State Leader of County Agents.
Cowan, Ralph Waldo Emerson, B.S., Dairy Industry.
Demaree, Chester Columbus, A.B., Botany.
DeMott, Henry Vroom, B.S., Pomology.
Diefenbach, William Theodore, B.Chem., Chemistry.
Dimmick, Forrest Lee, A.B., Psychology.
Dorsey, Ernest, B.S., Plant Breeding.
DuCasse, Francis Kilian, Chemistry.
Dudley, Guilford S., M.D., Clinical Surgery, New York City.
Dunlap, Vining Campbell, A.B., Botany.
Dye, Joseph Alma, A.B., Physiology.
Eames, Rita Ballard, B.A., Botany.
Einhorn, Max, M.D., Lecturer, Diseases of the Stomach, New York City.
Emmons, Ralph Lewis, A.B., Economics.
Evans, Deward Armenias, Foundry.
Everingham, Sumner, M.D., Clinical Surgery, New York City.
Fairbanks, Frank Latta, M.E., Farm Mechanics.
Fields, Frank Van Duzer, Physics.
Fisher, Mary Jones, A.B., A.M., Zoology.
Florence, Laura, B.S.C., M.A., Entomology.
Fox, Kenneth Clark, B.S., Poultry Husbandry.
Friderici, Edwin Daniel, Chemistry.
Frost, Walter Sprague, B.S., Agricultural Chemistry.
Furchgott, Hazel, Ph.B., Physical Education.
Gaertner, Henry Arthur, Experimental Engineering.
Garver, Paul Leslie, Machine Design.

Georgia, Ada Elgiva, Natural History.
Gershoy, Alexander Morris, Botany.
Gilchrist, Raleigh, A.B. in Chem., Chemistry. (Absent on leave.)
Green, Dana, Machine Shop.
Griffin, Frank Alexander, Chemistry.
Haber, Vernon Raymond, B.S., M.S., Biology.
Haines, George, B.S., Animal Husbandry.
Hamilton, Clyde Carney, B.S., M.S., Zoology.
Hayes, John W., B.S. in Chem., Chemistry.
Head, Walter Liston, Forge Shop.
Herrick, John Knapp, Farm Crops.
Hertig, Marshall, B.S., Insect Morphology.
Hill, Mary Ellen, B.S., Biology.
Hillhouse, Eleanor, B.S., Home Economics.
Hilmer, Herman, Ph.D., Economics.
Hood, Harrison Porter, Chemistry.
Hooper, Leroy, Pattern Shop.
Howe, Burdette Newton, Machine Shop.
Hubert, Merton Jerome, A.B., A.M., Romance Languages and Literatures.
Hunn, Charles Edward, Landscape Art.
Hyatt, James Mead, Physics.
Jensen, Ward C., B.S., Farm Crops.
Johnson, Walter Lee, jr., Experimental Engineering.
Kennedy, James Arthur, A.B., Chemistry.
Kinney, Harold Draper, Chemistry.
Koller, Joseph Peter, B.Chem., Chemistry. (Absent on leave.)
Koller, Lewis Richard, A.B., Physics.
Komp, William H. Wood, B.Sc., M.Sc., Biology.
Krum, Olin Clifford, B.S., Poultry Husbandry.
Lamphier, Louise Lyman, Economics.
Larkin, Leo Paul, Physics.
Latta, John Stephens, B.S., Histology and Embryology.
Leister, Claude Willard, B.S., Ornithology.
Levine, Samuel, M.D., Medicine, New York City.
Levy, Theresa, A.B., Chemistry, New York City.
Liddle, Ralph Alexander, Geology.
Lippincott, William Leroy, Chemistry.
Loudenslager, Charles Bernard, B.S., Extension Service.
Louder, Earl Albert, B.S., Agricultural Chemistry.
McBerty, Ford Hapgood, Physics.
Macomber, Hugh Irwin, Poultry Husbandry.
Martin, Thomas Lysons, B.A., Soil Technology.
Maver, W. Wallace, Roentgenology, New York City.
Mayer, William Lyndon, Poultry Husbandry.
Mekeel, Amy Grace, A.B., Zoology.
Mertz, Pierre, Physics.
Metzger, Ruth Isidor, Pomology.
Middleton, Gordon Kennedy, B.S., Farm Crops.
Moon, Hubert Hill, Dairy Industry.
Moon, Merle Perrott, A.B., Dairy Industry.
Morris, Russell G., Poultry Husbandry.
Mueller, Henry, M.D., Pathology, New York City.
Mulcahy, Thomas A., M.D., Surgery, New York City.
Murayama, H., Anatomy, New York City.
Murphey, Helen Elizabeth, B.S., Biology.
Nagel, Theodore, Military Science and Tactics.
Nankivell, Francis John, Machine Design.
Nirenberg, Bertram, Experimental Engineering.
Northrop, Burdette K., Physics.
Norton, Lawrence Joseph, B.S., Farm Management.

O'Connell, Walter Christopher, Physical Training.
 Ohlendorf, Walter, B.S., Biology.
 Owens, Helen Brewster, Mathematics.
 Peters, John P., M.D., Medicine, New York City. (Absent on leave.)
 Pollard, Frank Howell, B.Chem., Chemistry.
 Porter, Joseph Pullman, B.S., Landscape Art.
 Rahe, Alfred Henry, M.D., Hygiene, New York City.
 Rahe, Jessie Moore, A.B., A.M., Experimental Medicine, New York City.
 Rand, Ruth, A.B., A.M., Histology and Embryology.
 Rector, Charles Harmon, Poultry Husbandry.
 Reimer, Franz Henry, Experimental Engineering.
 Reyes, Hermenegildo Balbino, B.A., Power Engineering.
 Robertson, George William MacDonald, English.
 Rubinger, Joseph, Forestry.
 Santee, Harold Elmore, A.B., M.D., Clinical Surgery, (New York City.)
 Schultz, David, Chemistry.
 Seaman, Helen, B.A., Botany.
 Seamon, Emily J., M.D., Experimental Medicine, New York City.
 Sheldon, Pearl Gertrude, A.B., Ph.D., Geology.
 Sherburne, Arthur John, Chemistry.
 Sheridan, Joseph Talbot, A.B., Anatomy.
 Sherwood, Fleming Bates, B.S., M.S., Soil Technology.
 Smith, Benjamin Harrison, A.B., Plant Pathology.
 Smith, Morris K., M.D., Clinical Surgery, New York City.
 Smith, Raymond Stratton, B.S., M.S., Soil Technology.
 Smith, William Dudley, A.B., English History.
 Soderstrom, G. F., Chemistry, New York City.
 Sohon, Julian Arell, Chemistry.
 Spaeth, John Nelson, Forestry.
 Stork, Harvey Elmer, A.B., Botany.
 Stouffer, Paul Metcalfe, Chemistry.
 Sturges, Herbert Arthur, A.B., Economics.
 Sutton, Henry Bruner, Anatomy.
 Tapke, Victor Ferdinand, B.S., Plant Pathology.
 Thomas, Edwin Hewes, Chemistry.
 Vanderhoef, James Elijah, Foundry.
 Van Fleet, M. E., M.D., Neurology, New York City.
 Van Scoy, Alice Cornelia, B.S., Home Economics.
 Van Wagenen, William Perrine, Histology and Embryology.
 Weaver, Leland Eugene, Poultry Husbandry.
 Weeks, Frederick Albert, Poultry Husbandry.
 Weiss, Freeman, B.S., Botany.
 Wellhouse, Walter Houseley, A.B., A.M., Biology.
 de Wet, Charl Louis Roux, B.S., Soil Technology.
 Wheeler, George Whiting, M.D., Bacteriology.
 White, Anna Laura, Physics.
 White, Ward Benjamin, A.B., Dairy Industry.
 Working Holbrook, A.B., Rural Economy.
 Wright, Ivan, B.A., B.S., M.S., Rural Economy.
 Young, Ernest Charles, B.S., Animal Husbandry.

ASSISTANTS IN MILITARY SCIENCE AND TACTICS

Berston, James Lewis, Colonel.
 Milligan, William Girvan, Major.
 Moon, Hubert Hill, Major.
 Wilbur, Francis Cressy, Major.
 Christian, Cyrus Marvin, Captain.
 Duffies, Edward Lowe, Captain.
 Eldridge, William Charles, Captain.

Greenberg, Henry Wolfe, Captain.
 Greenwood, William Barton, Captain.
 Huestis, Thomas Bunting, Captain.
 Krey, Charles Edward, Captain.
 Le Boeuf, Randall James, jr., Captain.
 McCallum, Charles Ray, Captain.
 Reid, Kirk Mendenhall, Captain.
 Roof, Claude W., Captain.
 Sohon, Julian Arell, Captain.
 Starke, Ralph Gustave, Captain.
 Trowbridge, Sherman, Captain.
 Vischer, Peter, Captain.

STANDING COMMITTEES OF THE UNIVERSITY FACULTY

The year in parenthesis indicates the date of retirement.

Committee on Admission by Certificate. Professor G. P. Bristol (1921), chairman; the Secretary of the University Faculty; Professors H. C. Davidsen (1918); R. C. Gibbs, substitute for E. Blaker (1918); J. H. Tanner (1919); G. A. Works (1919); L. Pumpelly (1920); C. W. Ham, (1920); J. P. Bretz, (1921); the Registrar.

Committee on Student Affairs. Professor D. S. Kimball (1918), chairman; the Secretary of the University Faculty; Professors A. W. Browne (1918); W. F. Wilcox (1918); H. N. Ogden, substitute for E. Blaker (1919); C. A. Martin (1919); F. A. Barton (1920); C. Betten (1921); C. T. Stagg (1921); the Registrar.

Committee on Undergraduate Scholarships. The Secretary of the University Faculty, chairman; Professors A. W. Boesche (1918); R. C. Gibbs, substitute for J. S. Shearer (1918); J. H. Tanner (1919); C. E. Bennett (1919); G. L. Burr (1920); S. G. George (1920); R. F. Keniston, (1921); W. Strunk (1921).

Committee on University Policy. The President; the Secretary of the University Faculty; the Dean of the Graduate School; the Deans of the several college faculties; the Secretary of the Medical College at Ithaca.

Committee on Relations to Secondary Schools. Professor G. P. Bristol, chairman; the Secretary of the University Faculty; Professors G. A. Works, J. P. Bretz, J. H. Tanner, P. R. Pope, L. N. Broughton, R. C. Gibbs, the Registrar.

Committee on Excuses from Physical Training and Military Science. The Secretary of the University Faculty, chairman; the Commandant; the Professor of Physical Culture; Professors W. A. Riley and H. Diederichs; Miss Canfield.

Entrance Examination Board. Professor G. P. Bristol (1920), chairman; the Secretary of the University Faculty; Professors G. E. F. Lundell (1918); J. F. Mason (1918); V. Snyder (1919); B. S. Monroe (1919); D. English (1921); O. A. Johannsen (1921).

Committee on Official Publications. The President; the Secretary of the University Faculty; the Dean of the Graduate School; the Deans of the several college faculties; the Secretary of the Medical College at Ithaca; the Registrar; the Secretary of the University.

Committee on Hygiene and Sanitation. Professors Kerr, Moore, Ogden, C. V. P. Young, and Dr. Munford.

Committee on Music. The Secretary of the University Faculty, Professors G. P. Bristol and E. H. Woodruff.

Committee on Prizes. The Secretary of the University Faculty, Professors C. H. Hull and C. T. Stagg.

OTHER OFFICERS

Schurman, Jacob Gould, A.M., D.Sc., LL.D., President of the University, 1892.
 Professor of Philosophy, 1886.

- Williams, Emmons Levi, Comptroller of the University, 1914.
 Assistant to the Treasurer, 1872; Acting Treasurer, 1879; Treasurer, 1885;
 Secretary of Board of Trustees, 1894-1914.
- Bostwick, Charles Dibble, A.B., LL.B., Treasurer of the University, 1914;
 Secretary of Board of Trustees, 1915.
 General and Legal Assistant to the Treasurer, 1898; Assistant Treasurer, 1903.
- Curtis, Charles Elbert, B.C.E., Superintendent of Buildings and Grounds, 1915.
- Hoy, David Fletcher, B.S., M.S., Registrar, 1895. Assistant to the Registrar, 1891.
- Woodford Patterson, A.B., Secretary of the University, 1917.
- Barbour, Elizabeth H., Warden of Sage College, 1909.
- Nye, Gertrude Houston, Warden of Prudence Risley, 1913.
- Tree, Thomas, Manager of Residential Halls, 1912. Assistant to the Treasurer, 1894.
- Sutherland, Harriet, Superintendent of the Cornell Infirmaries.
- Munford, (Dr.) Samuel Archer, A.B., M.D., Medical Adviser for Men, 1915.
 (Absent on leave.)
- Balderrey, (Dr.) Frank C., M.D., Acting Medical Adviser for Men, 1917.
 Assistant Medical Adviser, 1916.
- Harrington, John J., M.D., Assistant Medical Adviser for Men, 1917.
- McWhorter, William B., M.D., Assistant Medical Adviser for Men, 1917.
- Matzke, (Dr.) Edith H., M.D., Medical Adviser for Women, 1914, and Adviser
 of Women, 1916.
- Shannon, Isabel, M.D., Assistant Medical Adviser of Women, 1917.
- Twesten, (Lieut.) Theodore Herman, Proctor of the University.
- Cornell, Charles Ezra, Inspector.

NONRESIDENT LECTURERS, 1916-17

- Professor A. Carnoy: The Origins of Language.
- C. F. Roland: From Ore to Finished National Pipe.
- Jules Bois: La Femme en France.
- Sir Rabindranath Tagore: The Cult of Nationalism.
- E. de Martonne: The Geography of Rumania and its Bearing on the War.
- John D. Rockefeller, jr.: The Personal Relation in Industry.
- J. Laurence Laughlin: Credit Operations in the European War—Germany;
 Credit Operations in the European War—France; Credit Operations in
 the European War—England.
- Charles Wellington Furlong: Argentina and the Patagonian Pampas.
- George W. Perkins: The Man of the Future.
- Ellwood Hendrick: The Humanities in the Sciences.
- Camillo von Klenze: Realism in German Drama: From Schiller to Hauptmann;
 Pessimism and Optimism in German Literature: Nietzsche and
 Lenau. Realism and Romanticism in Modern German Fiction: Keller
 and C. F. Meyer.
- George W. Goethals: Constructive Features of the Panama Canal.
- Eugen Kuhnemann: Friedrich Nietzsche und sein Zarathusta; Gerhart Hauptmann
 und der Gedanke der Gegenwart; Schiller und die Tragedie der
 Menschheit.
- A. L. Guerard: The Life and Art of Honoré de Balzac.
- Alejandro Alvarez: The Reconstruction of International Law, and the Work of
 the American Institute of International Law in this Sense; The Fundamental
 Rights of a State, especially the Right of Necessity and Intervention,
 in conformity with the 'Declaration' of the Institute; The Monroe Doctrine
 from a Latin-American Point of View.
- George A. Post: Doctors of Transportation.
- Gustave Lanson: Les Origines françaises du Romantisme.
- William Francklyn Paris: Wrought Iron as a Decorative Element in Architecture.
- Mrs. Vernon L. Kellogg: What the Women of Belgium are Doing to Save Their
 People.
- Felix Adler: What a Man Can Get Out of His Work.

Madame Laura de Gozdawa-Turczynowicz: When the Prussians Came to Poland.

Madame Jane Arctowska: Poland's Place in the History of Civilization.

UNIVERSITY PREACHERS ON THE DEAN SAGE PREACHERSHIP ENDOWMENT, 1916-17

- Rev. Philip S. Moxom, D.D., Pastor of South Congregational Church, Springfield, Massachusetts.
- Rev. Charles A. Eaton, D.D., Pastor of the Madison Avenue Baptist Church, New York City.
- Rev. S. Parks Cadman, D.D., Pastor of the Central Congregational Church, Brooklyn, New York.
- Rev. William F. McDowell, D.D., Bishop of Methodist Episcopal Church, Washington, D. C.
- Rev. A. B. Meldrum, D.D., Pastor of The Old Stone Church, Cleveland, Ohio.
- Rev. Allen Macy Dulles, D.D., Auburn Theological Seminary, Auburn, New York.
- Rev. Samuel A. Eliot, D.D., President of the American Unitarian Association, Boston, Massachusetts.
- Rev. Ralph E. Bailey, Pastor of East End Baptist Church, Cleveland, Ohio.
- Rev. Albert Parker Fitch, D.D., President of the Andover Theological Seminary, Cambridge, Massachusetts.
- Rt. Rev. Charles Fiske, D.D., LL.D., Bishop Coadjutor, Diocese of Central New York, Syracuse, New York.
- Rev. William Pierson Merrill, D.D., Pastor of Brick Presbyterian Church, New York City.
- Rev. Charles Francis Carter, D.D., Pastor Immanuel Congregational Church, Hartford, Connecticut.
- Rev. Lynn Harold Hough, D.D., Garrett Biblical Institute, Evanston, Illinois.
- Rabbi Stephen S. Wise, Free Synagogue, New York City.
- Rev. William Elliot Griffis, D.D., Ithaca, New York.
- Rt. Rev. Ethelbert Talbot, D.D., Bishop of Bethlehem, South Bethlehem, Pennsylvania.
- Rev. Samuel V. V. Holmes, D.D., Pastor Westminster Presbyterian Church, Buffalo, New York.
- Rev. E. Y. Mullins, D.D., LL.D., President Southern Baptist Theological Seminary, Louisville, Kentucky.
- Rev. Paul Revere Frothingham, D.D., Pastor of Arlington Street Church, Boston, Massachusetts.
- Rev. William C. Bitting, D.D., Pastor Second Baptist Church, St. Louis, Missouri.
- Rev. Edwin H. Hughes, D.D., LL.D., Bishop of Methodist Episcopal Church, Malden, Massachusetts.
- Rev. Malcolm J. MacLeod, Pastor of Collegiate Church of St. Nicholas, New York City.
- Very Rev. S. S. Marquis, D.D., Dean of St. Paul's Cathedral, Detroit, Michigan.
- Rev. Kerr Duncan Macmillan, S.D.D., President of Wells College, Aurora, New York.
- Rev. John Hayes Holmes, Pastor of Church of the Messiah, New York City.
- Rev. Francis J. McConnell, D.D., Bishop of the Methodist Episcopal Church, Denver, Colorado.
- Rev. Herbert A. Youtz, Theological Seminary, Auburn, New York.
- Rev. John D. Adam, D.D., Hartford Theological Seminary, Hartford, Connecticut.
- Rev. Hugh Black, D.D., Union Theological Seminary, New York City.
- Rev. Joseph C. Hartzell, D.D., LL.D., Bishop of Methodist Episcopal Church, Blue Ash, Ohio.
- Rev. Charles W. Gilkey, Pastor of Hyde Park Baptist Church, Chicago, Illinois.
- Baccalaureate Sermon.

ADMISSION TO THE UNDERGRADUATE COLLEGES

For admission to the Graduate School see p. 49; for admission to the Medical College see p. 102.

Applications for admission to any one of the undergraduate colleges of the University, except the Medical College, are entertained from the following three classes of persons: (a) those who desire to begin as freshmen, in some college of the University, a regular course of study leading to a degree conferred by that college; (b) those who, having already attended some institution of collegiate rank, desire to enter some college of the University; (c) those who desire to register as special students not candidates for a degree. The conditions of admission for these three classes of persons are separately described on pages 39 and 45.

The normal time for admission of students to the undergraduate colleges is at the beginning of the first term of the University year in September. For the admission of students at the beginning of the second term in February, see p. 42.

Every applicant for admission to any of the undergraduate curricula of the University, must file at the Registrar's office either a certificate of good moral character, or, in case he has previously attended some other college or university without graduating from it, a certificate of honorable dismissal from that institution.

ADMISSION OF FRESHMEN

Men who desire to begin as freshmen a curriculum leading to a degree in one of the colleges of the University, must be at least sixteen years of age. Women must be at least seventeen years of age. In the College of Law the minimum age for both men and women is, for the curriculum of four years, seventeen years; for the curriculum of three years, eighteen years.

All the colleges of Cornell University conferring baccalaureate degrees presuppose, on the part of an applicant for admission, an amount of training equivalent to that gained by four years of successful work in a high school of good standing.

Scholastic Requirements

A student who applies for admission as a freshman to any college of Cornell University is required to offer fifteen units of entrance credit in subjects included in the following list of "Entrance Subjects." A "unit of entrance credit" is granted to a student who gives evidence that he has such knowledge of an entrance subject as should normally be acquired in five periods a week during one school year, or in 120 sixty minute periods.

A. Requirements common to all the colleges. Nine units. Of these fifteen units of entrance credit, nine units in the following subjects are required by each of the colleges: English, 3 units; history, 1 unit; mathematics, 2 units; one foreign language, 3 units.

B. Additional and, in some cases, specific requirements of the several colleges. Six units. In these six remaining units some of the colleges require that additional credits in some of the subjects in group A or credits in certain other subjects shall be included, while in other colleges, all of these remaining six units are elective, i. e. they may, with certain restrictions mentioned on p. 40, be selected by the candidate at will from the list of Entrance Subjects here printed.

ENTRANCE SUBJECTS

The subjects and the maximum and minimum amounts of credit in each that may be offered for admission to the University are:

1a. English 1	1½ unit	8d. English History . . .	½ unit or 1 unit
1b. English 2	1½ unit	9a. Elementary Algebra . . .	1 unit
2a. First Year Greek	1 unit	9b. Intermed. Algebra	½ unit
2b. Second Year Greek	1 unit	9c. Advanced Algebra	½ unit
2c. Third Year Greek	1 unit	9d. Plane Geometry	1 unit
3a. First Year Latin	1 unit	9e. Solid Geometry	½ unit
3b. Second Year Latin	1 unit	9f. Plane Trigonometry	½ unit
3c. Third Year Latin	1 unit	9g. Spher. Trigonometry . . .	½ unit
3d. Fourth Year Latin	1 unit	10. Physics	1 unit
4a. First Year German	1 unit	11. Chemistry	1 unit
4b. Second Year German	1 unit	12. Phys. Geog.	½ unit or 1 unit
4c. Third Year German	1 unit	13. Biology	1 unit
5a. First Year French	1 unit	14. Botany	½ unit or 1 unit
5b. Second Year French	1 unit	14a. Zoology	½ unit or 1 unit
5c. Third Year French	1 unit	15. Bookkeeping	½ unit or 1 unit
6a. First Year Spanish	1 unit	16. Agriculture (including home economics, etc.)	½ unit to 4 units
6b. Second Year Spanish	1 unit	17. Drawing	½ unit or 1 unit
6c. Third Year Spanish	1 unit	18. Manual Training	1 unit
7a. First Year Italian	1 unit	19. { Any High School subject or subjects not already used	½ unit or 1 unit
7b. Second Year Italian	1 unit		
7c. Third Year Italian	1 unit		
8a. Ancient Hist.	½ unit or 1 unit		
8b. Modern Hist.	½ unit or 1 unit		
8c. Am. His. Civics.	½ unit or 1 unit		

In connection with the foreign language requirements, the following restrictions should be noted: 1. In those colleges where the requirement is 3 units, all of these units must be in a single language. Any number of elective units in a second language will be accepted. If the applicant offers at least 2 units in the second language, any number of units in a third language will be accepted. 2. In the College of Arts and Sciences where the requirement is 5 units, at least 3 of these units must be in one language and at least 2 units in a second language. Any number of elective units in a third language will be accepted.

If Biology (1 unit) is offered, neither Botany (½ unit) nor Zoology (½ unit) may be counted.

No part of No. 15 may be counted for entrance to Arts and Sciences except under No. 19; a maximum of one unit in Bookkeeping is allowed by all the other colleges with the exception of the College of Agriculture which permits a maximum of one unit to be counted with the restriction that it cannot be offered in conjunction with more than one of the following subjects, Agriculture, Drawing, Manual Training.

Agriculture may not be counted for entrance to Arts and Sciences or to Law. An applicant may offer for admission to Agriculture not to exceed four units in vocational subjects under numbers 16, 18, and 19 combined.

A student may not count under No. 19 work in subjects Nos. 1-18 until he has offered the maximum (e. g. 4 units of Latin; 3 units of English, Greek, German, French, Italian, or Spanish; 1 unit of Physics, Chemistry, or Manual Training) in Nos. 1-18.

In drawing and in manual training, three hundred actual hours are required for one unit of credit.

A candidate for admission who presents No. 19 in the list above as a part of the fifteen units required for entrance will not be allowed to take any examination for college credit at entrance, see page 45.

The following tabulation shows the subjects and credits required by the several colleges.

ENTRANCE REQUIREMENTS OF THE UNDERGRADUATE COLLEGES

ARTS AND SCIENCES		LAW	LAW	AGRICUL-	VETER-	ARCHITECTURE		CIVIL AND MECH. ENG.	
A.B.	B. Chem.			TURE	INARY				
4 years	4 years	4 years	3 years	4 years	4 years	4 years	4½ or 5 yr.	4 years	4½ or 5 yr.
English, 3	English, 3	English, 3	A diploma or certificate of graduation from a university or college or a certificate that the applicant has met the entrance requirements and satisfactorily completed one year (beginning Sept. 1919, two years) of study in a university or college of approved standing is required for admission to the three-year curriculum in Law.	English, 3	English, 3	English, 3	English, 3	English, 3	English, 3
Foreign Languages, 5	French, 3 or German, 3	One Foreign Language, 3		One Foreign Language, 3	One Foreign Language, 3	French, 3 or German, 3	French, 3 or German, 3	One Foreign Language, 3	One Foreign Language, 3
History, 1	History, 1	History, 1		History, 1	History, 1	History, 1 Physics, 1	History, 1	History, 1	History, 1
Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1		Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1
Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1		Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1
	Intermed. Algebra, ½	In September, 1919, and thereafter applicants will not be admitted to the four-year course.		[Solid Geom. and Pl. Trigonometry are not required but are strongly recommended for students intending to take Forestry or Landsc. Art.]	See Note	Intermed. Algebra, ½		Intermed. Algebra, ½	
	Solid Geometry, ½					Solid Geom., ½		Solid Geom., ½	
	Advanced Algebra, ½					Advanced Algebra, ½		Advanced Algebra, ½	
	Plane Trigonometry, ½					Plane Trigonometry, ½		Plane Trigonometry, ½	
Elective, 4	Elective, 4	Elective, 6		Elective, 6	Elective, 6	Elective, 3	Elective, 6	Elective, 4	Elective, 6
TOTAL, 15	TOTAL, 15	TOTAL, 15		TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15

Candidates for the degree of Bachelor of Chemistry are advised to include, among their entrance subjects, in addition to the full four units in mathematics, also three units of German and two units of French. Those who have not presented these subjects at admission will be required to take them in the University, which may result in the extension of their period of residence beyond eight terms. For the present, applicants will be admitted to the College of Arts and Sciences as candidates for the degree of Bachelor of Chemistry, upon satisfaction of the entrance requirements for the curriculum leading to the degree of Bachelor of Arts.

For admission to the New York State Veterinary College an applicant must offer a Veterinary Student Certificate issued by the Education Department of the State of New York, Albany, N. Y. This certificate satisfies the entrance requirements in full.

It is strongly recommended that for entrance to Architecture, Civil Engineering, and Mechanical Engineering, at least three of the four elective units be offered in language and history.

French or German is preferred for the three foreign language units required by the College of Civil Engineering, the College of Mechanical Engineering, the College of Agriculture, and the Veterinary College.

Admission at the Beginning of the Second Term

Applicants who have fully satisfied the entrance requirements of the College of Arts and Sciences may be admitted as freshmen in that College at the beginning of the second term in February, as well as at the beginning of the first term in September. They will be able to make up a satisfactory schedule of work at the beginning of the second term, since freshman classes in the languages, history, mathematics, physics, chemistry, and zoology are begun at that time.

Applicants who have fully satisfied the entrance requirements of the College of Agriculture may be admitted as freshmen in that college at the beginning of the second term in February; they will, however, find it difficult to arrange satisfactory schedules and therefore should, if possible, enter in September.

Students who meet in full the requirements for admission as freshmen in either the four-year or five-year courses in the Colleges of Mechanical Engineering, of Civil Engineering, and of Architecture may enter said colleges at midyear to pursue courses which will be specially outlined to suit each individual case and which will lead to the degree of Mechanical Engineer, Civil Engineer, or Bachelor of Architecture at the end of four and a half years. Those who at this time meet the requirements for admission to the five-year course must enter the University classes in such of the mathematical courses required for admission to the four-year courses as have not been credited to them.

In order to secure admission at midyear with advanced standing in the regular four-year courses in the College of Mechanical Engineering, of Civil Engineering and of Architecture, with the view of graduating in less than four years, the applicant must have attended an institution of collegiate rank and must secure credit for such university courses as will enable him, by attending during the remainder of the college year and (possibly) during the succeeding Summer Session, to substantially complete the year's work scheduled for the class he wishes to enter.

Students may not enter the College of Law, in the three-year course, at the beginning of the second term. Applicants for admission to the four-year course may be admitted at the beginning of the second term of the first year; but such applicants will be required to attend the sessions of the Summer School during the two succeeding summers, in order to obtain credit for the amount of work in Arts and Sciences which is included in the four-year law course.

Students who desire admission at the beginning of the second term must place their certificates and credentials in the hands of the Registrar not later than January 15. For January entrance examinations, see page 43.

METHODS OF SATISFYING THE ENTRANCE REQUIREMENTS

Every applicant for admission must, by one of the four following methods, or by some combination of these methods, show that he possesses a satisfactory knowledge of the subjects that are required for admission to the particular college in which he plans to pursue his studies.

1. By passing the required Cornell University Entrance Examinations, see page 42.
2. By passing the College Entrance Examination Board Examinations in the required subjects, see page 43.
3. By passing the necessary Regents' Examinations (for students who have prepared in New York State), see page 43.
4. By presenting an acceptable school certificate, see page 44.

1. CORNELL UNIVERSITY ENTRANCE EXAMINATIONS

The Cornell University Entrance examinations assume in general that for each unit of entrance the student shall have such knowledge of the subject concerned as should normally be acquired in five periods a week during one school year, or in 120 sixty minute periods. The entrance examination in English (total of three units) assumes four years of preparatory study.

Examinations for admission to the University are held in Ithaca, and all examinations except in drawing, and in manual training and in certain subjects in agriculture and home economics, are held in New York City, First Avenue and 28th Street, in September, at the beginning of the first term of the University year. A fee of \$1 for each subject, with a maximum charge of \$5 for all subjects, must be paid by all candidates who take these examinations in New York City; the fee must be paid a second time in the case of candidates who repeat the examinations. Permits to take the examinations must be secured from the Registrar in Ithaca. The University does not hold entrance examinations in the subjects included under number 19 of the list of entrance subjects, page 40.

No examination of candidates for admission will be held by the University at any other times or places, except at the end of the first term at Ithaca. Permits to take the mid-year entrance examinations at Ithaca may be issued up to January 15 in each year upon the payment of \$1 for each subject to be taken with a maximum of \$5 for five or more subjects. In the case of applicants later than January 15 the Registrar may issue permits wherever possible. In this case the fee charged shall be double that charged prior to January 15.

A candidate may take all the entrance examinations in the same year, or he may divide them among two or three successive years.

For details concerning the subject matter of the University entrance examinations, the General Circular of Information should be consulted. Specimen copies of the September examination papers may be obtained by applying to the Secretary of the University.

2. COLLEGE ENTRANCE EXAMINATION BOARD EXAMINATIONS

The examinations held by the College Entrance Examination Board in June of each year are accepted as the full equivalents of the Cornell University Entrance Examinations in the corresponding subjects.

The next examinations of the College Entrance Examination Board will be held at Ithaca, and at various other places, June 17-22, 1918.

The examination fee at points in the United States and Canada is five dollars; at points outside of the United States and Canada, fifteen dollars, for each candidate examined.

Those who wish to procure forms of application for examination, should address The College Entrance Examination Board, 431 West 117 Street, New York City.

3. ENTRANCE BY REGENTS' EXAMINATIONS

The Regents' examinations of the Education Department of the State of New York are accepted as the full equivalent of the Cornell University Entrance Examinations in the corresponding subjects.

The officially signed certificates or pass-cards (even for single subjects) issued by the Department of Education of the State of New York for passing Regents' examinations are accepted by Cornell University in all entrance subjects which are covered by such credentials.

The Arts College Entrance Diploma or the Science College Entrance Diploma satisfies in full the entrance requirements of the College of Arts and Sciences (for the degree A.B.), of the College of Law (the four-year curriculum), and of the College of Agriculture; either likewise satisfies the requirements for admission to the 4½-year and the 5-year curricula in Architecture, in Civil Engineering, and in Mechanical Engineering.

The Arts College Entrance Diploma or the Science College Entrance Diploma satisfies the requirements for admission to the four-year curriculum in Mechanical Engineering and in Civil Engineering provided the four entrance units required in mathematics are satisfied.

The Arts College Entrance Diploma or the Science College Entrance Diploma satisfies in full the entrance to the four-year curriculum in Architecture provided the four entrance units required in mathematics, one in physics, and at least two in either French or German are satisfied.

The Department of Education, Albany, N. Y., will upon request issue to any student a statement showing all subjects passed to date. Apply to the Registrar for a blank for this purpose.

4. ENTRANCE BY SCHOOL CERTIFICATE

Certificates of work done in public or in private schools, in or out of the State may be accepted in lieu of passing entrance examinations, if the University authorities are satisfied with the standing of the school and if the applicant has completed a full regular course in the school and has been duly graduated after at least one year in the school.

The University does not engage in advance to accept the certificate of any school and the previous acceptance of certificates does not establish a permanent right to expect their further acceptance, but merely raises the presumption that similar certificates will be accepted.

Three separate steps must be taken before a student of any school will, on its certificate, be admitted to a college of Cornell University.

(a) The principal of the school must by formal application secure the certificate privilege for his school. (b) The principal of the school must submit a school certificate duly filled out for the individual candidate for admission. (c) The candidate himself must make application for admission to the particular college of Cornell University in which he intends to study. Official blanks for each of these purposes may be obtained from the Registrar of the University.

The school certificate should be forwarded by the principal as soon as possible after the graduation of the candidate. The application for the certificate privilege should, unless previously granted, accompany the school certificate. The candidate's application for admission to a particular college should be sent as early as possible after the candidate has decided in which college of Cornell University he desires to study. The application will be considered merely as a declaration of intention, and will impose no obligation upon the prospective student.

The school certificate should include all the subjects that the candidate has satisfactorily completed in the school, whether or not they are required by the particular college in which the candidate proposes to study; neglect to comply with this regulation may entail serious inconvenience and disappointment to the student. The school certificate may include subjects in which an examination has been passed for admission to the school. No additional or supplementary certificate will be considered after the first college term.

Certification for each unit of credit implies that the student has had five prepared recitations a week for one year of study in the subject. Two hours of laboratory work may be reckoned as equivalent to one hour of prepared recitation. If the candidate has not had five periods a week for one year in any subject but has had not less than 120 actual hours (7,200 minutes) of recitation in the subject, the school may if it desires recommend him for one unit of credit, but the school certificate must show the exact number of actual hours of recitation in the subject.

Notebooks in general need not be submitted and should not be sent unless they are in individual cases specifically requested by the Registrar.

Subjects in which work has been done privately outside of the regular school curriculum, even if under the direction of teachers in the school, should not be included in the certificate.

If in any entrance subject a student has failed to pass the Cornell or any other University Entrance Examination, or the College Board Entrance Examination, or the Regents' examination, he will not thereafter be allowed to offer a school certificate in that subject, unless subsequently to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Admission on school certificates is in all cases provisional. If, after admission to the University, a student fails in any subject dependent upon an entrance subject for which a school certificate has been accepted, credit for that entrance subject may be cancelled.

All communications and requests in connection with admission by school certificate should be addressed to the Registrar of the University. The University will welcome any special or personal information that school principals may care to furnish in connection with individual applicants for admission.

COLLEGE CREDIT AT ENTRANCE

For Surplus Entrance

Credit towards a degree for work done in a preparatory school, upon subjects (Nos. 1-18, incl.) which may be offered for entrance to the University, will be given only to those students who, in addition to satisfying all entrance requirements, pass separate examinations in the subjects for which they seek college credit. These examinations will cover substantially the same ground as do the University courses in the corresponding subjects. An applicant who desires a college credit examination must apply to the Registrar not later than September 10 in any year, specifying which fifteen units he intends to offer in satisfaction of the entrance requirements, and upon what other entrance subjects he wishes to be examined for college credit.

In case he fails to satisfy the entrance requirements in any one or more of the subjects which he has offered for entrance, but passes the college credit examination in any other subject or subjects, he may use the latter for satisfying the entrance requirements, but in that case he cannot also receive college credit therefor. The college credit examinations will be held in September, on the date set for the entrance examinations in the same subjects.

A candidate using No. 19 in the list of Entrance Subjects (see page 40) to complete the required fifteen units may not apply for an examination for college credit.

ADMISSION OF SPECIAL STUDENTS

A person, ordinarily one of considerable maturity, may under certain circumstances, even without satisfying the entrance requirements, be admitted to one of the colleges of Cornell University as a special student not a candidate for a degree. The applicant must give evidence of ability to do creditable work in the college and his application for admission must be recommended by the department in which he proposes to do the main part of his work.

If a person admitted as a special student without satisfying the entrance requirements subsequently satisfies these requirements, he may be graduated under the ordinary regulations of the particular college in which he is studying. He will not be permitted, however, to make up deficiencies in entrance subjects by attending University instruction in those subjects.

Candidates for admission as special students must file their applications directly with the dean of the particular college in which they propose to study.

Special students in the College of Arts and Sciences must be at least twenty-three years of age; in the College of Law, in the College of Architecture, and in Sibley College, twenty-one years of age.

The College of Civil Engineering admits as special students persons at least twenty-one years of age who are college graduates and who intend to pursue advanced work without being candidates for a degree. The Sibley College of Mechanical Engineering requires that its special students shall have had engineering experience and the equivalent of the mathematics specified for the admission of regular students.

Special students in the College of Agriculture must have had two full years of recent farm experience and, unless they can satisfy all the entrance requirements for the regular course, must be at least twenty-one years of age.

ADMISSION FROM OTHER COLLEGES

A student who, having already attended a college or a university, desires to be admitted as a candidate for a degree to a college of Cornell University, should

file with the Registrar of Cornell University, on an official blank to be obtained from him, a formal application for admission to the college of the University along with an official certificate from the college or university which he has already attended, giving evidence of (1) his honorable dismissal, (2) his entrance examinations in detail, (3) his terms of attendance and the amount of work that he has completed, and (4) a detailed statement of the courses pursued. He should send also a catalogue of the institution, writing on it his name and marking the entrance requirements which he has satisfied and each subject which he has completed. All applicants for admission from other colleges should consult the special announcement of the college of Cornell University in which they propose to study.

PAYMENTS TO THE UNIVERSITY

TUITION

Regular Year.....	\$150
Third Term in Agriculture.....	75
Summer Session.....	30
Summer School in Agriculture.....	30†
Winter Courses in Agriculture.....	25†

Students upon registering become liable for the tuition fee for the term.

The tuition fee is payable in installments of \$85 at the beginning of the first term and \$65 at the beginning of the second term. In the Medical College in New York City the entire fee is payable at the beginning of the year.

The tuition fee for any term may be refunded to any student who, for reasons satisfactory to the Comptroller and the Registrar, withdraws within twenty days after the first registration day.

A student who withdraws from the University, for reasons satisfactory to the Comptroller and the Registrar, on or before November 15 or April 1, may have refunded one-half of the tuition fee for the current term.

Students registering after December 1 pay for the remainder of the first term two-thirds of the tuition fee for the first term. Students registering after April 1 pay for the remainder of the second term two-thirds of the tuition fee for the second term.

Free Tuition. Tuition is free to students who hold New York State Tuition Scholarships.

Students pursuing full, special, and short courses in the State Agricultural and Veterinary Colleges who at the beginning of the college year are and for at least twelve months prior thereto have been bona fide residents of the State of New York, shall be exempt from payment of tuition fees, provided, however, that no student shall be allowed to transfer from any such course to another course where tuition is charged without first paying the regular tuition fees for the hours for which he may receive credit in the latter course.

Tuition is free to graduate students for work in the State colleges. For each Graduate School minor subject taken outside the State colleges, when the major subject is taken in the State colleges, one-sixth of the regular tuition rate will be charged. For each Graduate School minor taken in the State colleges by students whose major subject is in another college, one-sixth of the regular tuition rate will be deducted. Tuition is free to holders of University fellowships or graduate scholarships.

No student will receive the Master's degree who has not paid tuition for at least one full year, and no one will receive the doctor's degree who has not paid full tuition for at least three years, unless one or more of these years have been spent in graduate study at another University.

†Tuition is free to students in the Winter Courses in Agriculture who for one year immediately preceding have been bona fide residents of New York State. For provisions governing free tuition in the Summer School in Agriculture, see the special announcement of the University Summer Session.

Members of the instructing staff registered in the Graduate School and having their major subject in the college or line of work in which they are instructing, or already having a degree and registered for work leading to the first degree in the college in which they are instructing, shall be exempt from the payment of tuition and from the payment of laboratory and shop fees in the department in which they are employed to give instruction. Members of the instructing staff taking work for which they are not entitled to free tuition shall be charged tuition in proportion to the amount of work for which they are registered.

All tuition and other fees may be changed or increased by the Trustees to take effect at any time without previous notice.

OTHER FEES

A matriculation fee of \$5 is charged all students on entering the University.

A registration fee of \$5 is charged each student registering for the first time in the Summer Session.

Every student (except those registered in the Medical College in New York City) is charged an Infirmary fee of \$3 a term payable at the beginning of each term. Students in the winter courses in Agriculture, are required to pay the Infirmary fee for one term. In return for the Infirmary fee, any student who is ill, is on his physician's certificate admitted to the Infirmary, and is given without further charge a bed in a ward, board, and ordinary nursing, for a period not exceeding two weeks in any one academic year.

Extra charges are made for private rooms, special food, and special nurses. If an ill student who has not received two weeks' service in the year is refused admittance to the Infirmary, by reason of lack of accommodation or if he is not cared for elsewhere by the University, he is entitled to a refund of the fee for both terms.

Students in the University Summer Session and in the Summer School in Agriculture have all the privileges of admission to the infirmary. They pay no fee in advance, but are liable for regular charges for services rendered.

For medical advice, see page 174.

Each male undergraduate student registered in the University shall be charged a locker fee of \$2 per term, which locker fee shall cover the use of a locker in the University gymnasium, or in the State Drill Hall, or in Schoellkopf Memorial Building with the use of bathing facilities and towels therein and the use of the Cornell University gymnasiums and play grounds.

Students registered in Sibley College or the College of Civil Engineering are charged \$12.50 a term for material used in College shops and laboratories; students not registered in Sibley College but taking work in the Sibley shops are charged at the rate of \$3.50 per record hour. A student who has taken while in a non-engineering college of this University part of the work required for an engineering degree shall, before receiving the technical degree, be required to pay to the University Treasurer such amount as would have been necessary if all such work had been taken while registered in the engineering college.

A fee of \$5 a term is required of students registered in Architecture for materials used in the draft rooms and laboratories. Students not registered in Architecture but taking work in design or drawing from life, must pay a fee of \$5 per term; for other courses in drawing or modelling \$2.50 per term.

A graduation fee of \$10 is required of each person taking a first or undergraduate degree, and one of \$20 of each person taking an advanced degree. When the degree is to be conferred at Commencement, this fee must be paid at least ten days prior to Commencement Day. When the degree is to be conferred at another time than Commencement (September or February), the graduation fee must be paid at least ten days prior to the date on which it is to be conferred. The amount paid will be refunded should the degree not be conferred.

Every person taking laboratory work or courses where a fee is charged must pay to the treasurer the required fee or the required deposit for the materials, etc., to be used in the work. Members of the instructing staff who are registered in the graduate school shall be exempt from the payment of the laboratory and

shop fees, in courses taken or in research pursued in the department in which they are employed to give instruction.

All students in the University are held responsible for any injury done by them to its property.

A student who fails to pay his indebtedness to the University within twenty days after the last registration day for the term will be dropped from the University.

For reasons satisfactory to the Comptroller and the Registrar any of the following mentioned fees may be waived in any individual case upon recommendation of the Dean of the college concerned, if in his judgment the student's failure to comply with the regulation was due to ill health or to any other reasons beyond his control.

A student desiring to be reinstated after having been dropped from the University for delinquency in scholarship or conduct shall first pay a fee of \$25.

A matriculated student desiring to register after the close of Registration Day shall first pay a fee of \$5.

A student desiring to file his registration of studies after the date set by his college for filing the same shall pay a fee of \$2.

A student desiring to take an examination or other test for the removal of a term condition (including the making up of a mark of "Absent" or "Incomplete") shall first pay a fee of \$2 for each examination or other test.

A student desiring to continue his University work after having been absent without excuse from his Dean from any class or exercise occurring during the two days immediately preceding or immediately following the Thanksgiving, the Christmas, or the Easter Recess, shall pay a fee of \$2 for each day on which an absence occurred.

EXPENSES

A student's expenses at Cornell, beyond the stated University fees and a small outlay for books and instruments, depend in large measure on his personal tastes and habits. His expenses, other than those for board and room, may be estimated at the normal rate prevailing throughout that section of the country in which Ithaca is situated.

Parents and guardians are earnestly cautioned against providing their sons and wards with an excessive amount of pocket money. Many young men have been fatally handicapped in their university careers by overindulgence in this respect.

THE GRADUATE SCHOOL

The purpose of the Graduate School, which has exclusive control of all graduate work carried on in the University, is to provide the student with the method and discipline of original research, to the ultimate end that he may contribute to the advancement of knowledge. In furnishing this opportunity for independent study and investigation, the Graduate School seeks to make the conditions such as will enable the student to devote himself wholly to his chosen field. Unhampered by the restrictions that necessarily obtain in undergraduate work, he will come into freedom of association with older scholars, who will seek to make his work profitable to him by giving such aid and direction as he may need.

All courses of study offered in the University, and all the facilities for study and investigation afforded by its libraries and laboratories, are open to students in the Graduate School, subject only to the condition of their being qualified by previous study or experience to undertake the particular work desired.

The Faculty of the Graduate School is composed of those professors, assistant professors, and instructors who are, as members of special committees, engaged in supervising the work of graduate students.

ADMISSION

Graduates of the following colleges of Cornell University, namely, the College of Arts and Sciences, the Medical College, the College of Architecture, the College of Civil Engineering, the Sibley College of Mechanical Engineering, the Veterinary College, and the College of Agriculture, and graduates of other institutions in which the requirements for the first degree are substantially equivalent, are eligible for admission to the Graduate School. In other cases, studies pursued after graduation and experience gained by professional work or otherwise are taken into consideration in deciding whether the candidate's preparation as a whole is such as to justify his admission to the Graduate School. Graduates of colleges other than those of Cornell University may be admitted to the Graduate School, but not to candidacy for an advanced degree, in cases where their training is regarded as less than one year short of that required for the first degree at Cornell University.

Seniors in the colleges of Cornell University who have completed the work required for the Bachelor's degree may, under certain conditions to be ascertained from the deans of their respective colleges, be admitted to the Graduate School.

CANDIDACY FOR AN ADVANCED DEGREE

A student is admitted as a candidate for an advanced degree when he has satisfied the Faculty, and especially the professors with whom he intends to work, that both his general preparation and his preliminary work in his specialty are satisfactory in kind and sufficient in amount. For a student who has been admitted to candidacy for an advanced degree, the minimum time of residence for the Master's degree is one year, and for the Doctor's degree three years, provided that the work accomplished during that time is satisfactory.

Not all students admitted to the Graduate School may expect to obtain a degree at the end of the minimum period of residence. A student whose undergraduate work has been insufficient in amount or too narrowly specialized, or whose preparation in his special field is inadequate, must count upon spending some time, in addition to the minimum residence requirement, in work of a less advanced character. The minimum residence requirement, applies only to graduates of a four-year curriculum in some college of Cornell University, and to graduates of other institutions who have pursued an equivalent course of study.

The branch of knowledge to which the student intends to devote the larger part of his time is termed his major subject. The other fields of study selected,

which will be necessarily more restricted in their scope and which should in general be selected with reference to their direct bearing upon the major subject, are termed the minor subjects. Candidates for the Doctor's degree are required to select a major subject and two minor subjects; for the Master's degree, a major subject and one minor subject are required.

The work of each candidate for an advanced degree is in charge of a committee consisting of two or more professors under whom his major and minor subjects are pursued, the professor of his major subject being chairman.

Examinations for an advanced degree may be either oral or written, or both, at the option of the examining committee, and are open to all members of the Faculty.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is granted to a student who, after completing not less than three years of resident graduate work, presents a satisfactory thesis, and passes an examination on his major and minor subjects and on the subject matter of his thesis. Each candidate for the Doctor's degree must deposit one hundred printed copies of his thesis with the Dean for the use of the University Library.

The Doctor's degree is intended to represent not a specified amount of work covering a specified time, but long study and high attainment in a special field, proved in the first place by the presentation of a thesis which displays the power of independent investigation, and in the second place by passing corresponding examinations upon the ground covered by the major and minor subjects chosen at the beginning of the candidacy. The standard for the Doctor's degree is determined by the attainment to be expected of an excellent student who begins his work with adequate preparation, and devotes his whole time for three years to his major and minor subjects and to his thesis.

Candidates for the Doctor's degree will ordinarily be expected to have a working knowledge of French and German before beginning graduate work; and in all cases they must, before beginning their second year of residence, show to the satisfaction of their special committees that they possess a reading knowledge of these languages. If the subjects chosen by the candidate are of such character as to make it desirable that he should be familiar with some foreign language other than French and German, the special committee may, with the consent of the Dean, permit the substitution of that language for one of the two required.

The thesis for the Doctor's degree must be of such character as shall demonstrate the candidate's ability to do original work, and in respect of style and composition must be approved by the General Committee of the Graduate School or by some member of the Faculty who has been designated by the General Committee.

THE MASTER'S DEGREE

Cornell University confers the degrees of Master of Arts, Master of Science, Master of Architecture, Master of Civil Engineering, Master of Mechanical Engineering, Master in Forestry, Master in Landscape Design, and Master of Science in Agriculture.

After admission to candidacy for the degree, the student must spend at least one year in residence at this University and must pursue under the direction of his special committee, a course of advanced study including one major and one minor subject.

Each candidate must present a thesis, or essay, as the chairman of his special committee may decide, which shall demonstrate his ability to do independent work, and which shall be acceptable in style and composition. He must then pass an examination on his major and his minor subject and on the subject matter of his thesis.

GRADUATE WORK IN THE SUMMER

Graduate work may be pursued during the summer by: (a) a student who is registered in the Graduate School and also in the University Summer Session;

(b) a student who is registered in the Graduate School and also in the third term of the College of Agriculture; (c) a student who is registered only in the Graduate School and is working under the direction of a member of his special committee.

Work done in the Summer Session of Cornell University, under the direction of a member of the Faculty of the Graduate School, may be counted for residence toward the Master's degree. Two Summer Sessions are considered as one term of residence, four Summer Sessions as two terms.

The third term in the College of Agriculture is accepted for purposes of graduate residence as the equivalent of one of the regular terms of the year; but no candidate for the Doctor's degree will be allowed to receive credit for more than two terms of residence during any period of twelve months.

Members of the Faculty of the Graduate School wishing to direct during the summer months the studies of graduate students who are registered neither in the summer session nor in the third term in Agriculture may obtain authorization for such work by making application to the General Committee not later than May 1 of each year. Students who have already completed at least a full year of graduate work as candidates for an advanced degree, either in this University or in some institution whose graduate work is acceptable, may receive residence credit for work thus authorized. But no candidate for the Doctor's degree will receive credit for more than two terms of residence during any twelve consecutive months.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

The following twenty-five fellowships are annually offered in the Graduate School:

1. The Cornell Fellowship in English.
2. The McGraw Fellowship in Civil Engineering.
3. The Sage Fellowship in Chemistry.
4. The Schuyler Fellowship in Physiology; Vertebrate Zoology, including Anatomy and Histology and Embryology; or Invertebrate Zoology and Entomology.
5. The Sibley Fellowship in Mechanical and Electrical Engineering.
6. The Goldwin Smith Fellowship in Botany; Geology; or Physical Geography.
7. The President White Fellowship in Physics.
8. The Erastus Brooks Fellowship in Mathematics.
9. The University Fellowship in Architecture.
10. The University Fellowship in Romance Languages.
11. The University Fellowship in German.
12. The University Fellowship in Agriculture or in Veterinary Science.
13. The University Fellowship in Mechanical and Electrical Engineering.
14. The President White Fellowship in Modern History.
15. The President White Fellowship in Political and Social Science.
- 16-17. The Susan Linn Sage Fellowships in Philosophy.
18. The Susan Linn Sage Fellowship in Psychology.
- 19-20. The Fellowships in Political Economy.
- 21-22. The Fellowships in Greek and Latin.
23. The Fellowship in American History.
24. The Jacob H. Schiff Fellowship in German.
25. The Edgar J. Meyer Memorial Fellowship in Engineering Research.

The President White Fellowships in Modern History and in Political and Social Science have an annual value of \$500 each; the others have an annual value of \$400 each. All Fellows are also exempt from tuition.

The following seventeen graduate scholarships are annually offered in the Graduate School:

- 1-5. The Susan Linn Sage Graduate Scholarships in Philosophy.
6. The Susan Linn Sage Graduate Scholarship in Psychology.
7. The Graduate Scholarship in Mathematics.

8. The Graduate Scholarship in Chemistry.
9. The Graduate Scholarship in Physics.
10. The Graduate Scholarship in Civil Engineering.
11. The Graduate Scholarship in Latin and Greek.
12. The Graduate Scholarship in Archæology and Comparative Philology.
13. The Graduate Scholarship in Physiology; Vertebrate Zoology, including Anatomy and Histology and Embryology; or Invertebrate Zoology and Entomology.
14. The Graduate Scholarship in Botany; Geology; or Physical Geography.
15. The Graduate Scholarship in English.
16. The Graduate Scholarship in History.
17. The Graduate Scholarship in Architecture.

The graduate scholarships, with the exception of the scholarship in Architecture, have an annual value of \$200 each. Holders of graduate scholarships are also exempt from tuition. The graduate scholarship in Architecture grants only free tuition.

Official forms for submitting applications for fellowships and graduate scholarships may be obtained from the Dean of the Graduate School. All applications must be submitted to him on or before March 15 of the academic year preceding the one for which application is made. Before this application is filed, the applicant should have convinced himself by correspondence with the Dean that he is eligible for admission to the Graduate School of this University in full standing, since appointments are made only to those who are eligible for admission to candidacy for an advanced degree.

The term of each fellowship and graduate scholarship is one year; but the term may under exceptional circumstances be extended to two years.

Each holder of a fellowship or graduate scholarship may be called upon to render service to the University in the work of instruction or examination to the extent of four hours a week through the academic year.

All persons elected to fellowships and graduate scholarships are required, upon accepting their appointments, to file a bond that, in case of their resignation before the expiration of the time for which they were appointed, they will repay to the University any sums that they may have received.

The President White Fellowships in History and Political Science, may in the discretion of the Faculty of the Graduate School, be made travelling fellowships. In the case of a student of very exceptional ability and promise in the field of either of these fellowships, the two fellowships may, in the discretion of the Faculty, be combined for a single year into one.

The Jacob H. Schiff Fellowship in German may also, in the discretion of the Faculty of the Graduate School, be made a travelling fellowship.

Honorary Fellowships

Persons upon whom the Doctor's degree has already been conferred may, in the discretion of the Faculty of the Graduate School, be appointed to honorary fellowships. These fellowships cover all fees except laboratory charges. Actual residence at the University and regular registration in the Graduate School are required of all appointees.

GRADUATE PRIZE IN PHILOSOPHY

A Graduate Prize in Philosophy of the annual value of about \$25, is open for competition to all students registered in the Graduate School. The prize will be awarded to the graduate student who submits the best paper embodying the results of research in the field of philosophy.

For tuition and fees in the Graduate School see page 46.

GRADUATE STUDENTS, 1917-1918

†Not a candidate for a degree. ††Seniors who had completed the requirements for the baccalaureate degree (except in some cases the residence requirement) but were admitted to the Graduate School before the degree was actually conferred.

Allen, Charles Loring, A.B. 1916, Animal Husbandry, Farm Management (Wing, Warren)	Brodhead M.S. in Agr. Denver, Col.
†Allen, Mavia Geraldine, B.S. (Colorado Agr.) 1915, [Adviser: Professor Rose.]	
Anderson, Ernest Gustaf, B.Sc.A. (Nebraska) 1915, Plant Breeding, Plant Histology, Organic Chemistry (Emerson, Eames, Orndorff)	Concord, Neb. Ph.D.
Anthony, Roy David, B.S. (Rochester) 1908; B.S. (Cornell) 1910; M.S. in Agr. 1913, Plant Breeding, Pomology, Plant Physiology (Love, Myers, Chandler, Knudson)	Ithaca Ph.D.
Artschwager, Ernst Friedrich, B.S. (Colorado Agr.) 1915, Plant Pathology, Plant Physiology, Plant Histology (Whetzel, Fitzpatrick, Knudson, Curtis, Eames)	Austin, Colo. Ph.D.
Atkinson, Henry Victor, B.S. in Chem. E. (Ohio State) 1911, Physiology, Physiological Chemistry, Preventive Medicine (Lusk, Benedict, Torrey)	Van Wert, O. Ph.D.
Atwood, Leland Leavitt, A.B. (Clark) 1916, French, Spanish (Mason, Keniston)	Plymouth, N. H. A.M.
Auchter, Eugene Curtis, B.S. 1912, Pomology, Plant Physiology (Chandler, Knudson)	Morgantown, W. Va. Ph.D.
Baerg, Gerhard, A.B. (Kansas) 1916, German, Education (Faust, Ogden)	Hillsboro, Kan. A.M.
Bean, Frances Ashton, B.A. (Wellesley) 1916, Psychology, Education (Weld, Ogden)	Elyria, O. A.M.
Bechtel, Albert Reiff, B.S. (Pennsylvania) 1912; M.A. (same) 1912, Taxonomic and Ecological Botany, Plant Pathology, Floriculture (Wiegand, Fitzpatrick, White)	Royersford, Pa. Ph.D.
Benson, John Phineus, B.S. (Utah Agr.) 1915, Plant Physiology, Soil Technology, Physical Chemistry (Knudson, Curtis, Bizzell, Briggs)	Ph.D.
Berkowitz, Hyman Chonon, A.B. 1917, Spanish, French (Keniston, Mason)	Brooklyn A.M.
Besemer, Arthur Merle, B.S. 1913, Dairy Bacteriology, Pathogenic Bacteriology, Agricultural Chemistry (Stocking, Pickens, Cross)	Ithaca Ph.D.
Bier, Robert, B.S. (Penn. State) 1913, Rural Economy, Economics (Lauman, Davenport)	Ithaca M.S.
Bishop, Homer Guy, B.S. (Ohio University) 1911; M.S. (Same) 1912, Experimental Psychology, Physiology, Educational Psychology (Titchener, Simpson, Ogden)	Derby, O. Ph.D.
Bitner, Ralph Emerson, B.S. (Penn. State) 1914; M.S. (Univ. of Kentucky) 1916, Applied Electricity, Mathematics, Illumination (Bedell, Sharpe, Richtmyer)	Center Hall, Pa. Ph.D.
Blackwell, Carl Petty, B.S. (Oklahoma A. & M.) 1911; M.S. (University of Wisconsin) 1915, Soil Technology, Farm Crops, Plant Breeding (Bizzell, Montgomery, Love, Myers)	Austin, Tex. Ph.D.
Blake, Marion Elizabeth, B.A. (Mt. Holyoke) 1913, Latin, Greek (Bennett, Bristol)	New Haven, Conn. A.M.
Bodansky, Aaron, B.S. 1915, Biochemistry, Physiology, Pathology (Sumner, Simpson, Moore)	New York City Ph.D.
Bohannon, Charles Dudley, A.B. (Nebraska) 1910, Education, Rural Education, Farm Management, Rural Economy (Ogden, Works, Warren, Livermore, Lauman)	Ithaca Ph.D.
Booth, Harold Simmons, A.B. (Western Reserve) 1915; A.M. (same) 1916, Inorganic Chemistry, Physical Chemistry, Physics (Browne, Bancroft, Nichols)	Cleveland, O. Ph.D.
Boshnakian, Sarkis, B.S. in Agr. (Wisconsin) 1914; M.S. in Agr. (Cornell) 1915, Plant Breeding, Plant Physiology, Floriculture (Love, Emerson, Knudson, Curtis, White)	Madison, Wis. Ph.D.
Bradley, Jesse Franklin, A.B. 1911, Elizabethan Literature, English Language, Philosophy (Adams, Monroe, Creighton)	Saugatuck, Conn. Ph.D.
Brandes, Elmer Walker, B.S. (Michigan Agr.) 1913; M.S. (same) 1915, Plant Pathology, Plant Physiology, Mycology (Whetzel, Reddick, Knudson, Fitzpatrick)	Detroit, Mich. Ph.D.
Brannon, James Marshall, B.A. (North Dakota) 1907; A.M. (same), Plant Physiology, Botany, Limnology (Knudson, Curtis, Sharp, Needham)	Ithaca Ph.D.
Bregger, Thomas, B.S. (Illinois) 1910, Plant Breeding, Plant Physiology, Organic Chemistry (Emerson, Knudson, Curtis, Orndorff)	Ithaca Ph.D.
Bremer, Harry Earl, B.S. 1916, Dairy Bacteriology, Animal Husbandry (Stocking, Wing)	Amsterdam M.S. in Agr.
Bridges, Ernest, B.A. (Furman University) 1917, Philosophy, English (Thilly, Monroe)	Greenville, S. C. A.M.
Brillhart, Norman, A.B. (Oklahoma) 1917, Economic Geology, Mineralogy (Somers, Gill)	Kaufman, Tex. A.M.

- Brossard, Edgar Bernard, B.S. (Utah Agr.) 1911; M.S. (Minnesota) 1917, Ithaca
 Farm Management, Rural Economy, Animal Husbandry (Warren, Lauman, Wing) Ph.D.
- Burlage, Stanley Ross, B.S. 1917, Fredonia
 Physiology, Biochemistry (Simpson, Sumner) A.M.
- Bussell, Frank Pores, A.B. (Colgate) 1901, Ithaca
 Plant Breeding, Plant Physiology, Soil Technology (Love, Myers, Knudson, Curtis, Bizzell) Ph.D.
- Buttery, Clayton Joseph, A.B. 1912; A.M. 1913, Smyrna, Del.
 French, Spanish, Italian (Mason, Keniston, Hamilton) Ph.D.
- Campbell, Robert Argyll, A.B. (Wisconsin) 1906, Ithaca
 Public Finance, Economics, Statistics (Young, Davenport, Willcox, Orth) Ph.D.
- Caplan, Harry, A.B. 1916; A.M. 1917, Albany
 Latin, Greek, Archaeology (Bennett, Bristol, Andrews) Ph.D.
- †Carpenter, Charles Milton, D.V.M. 1917, Unadilla
 [Adviser: Professor W. L. Williams.]
- Carson, Estle Clarence, A.B. (Yale) 1914, Leesburg, O.
 American History, Political Institutions (Hull, Orth) A.M.
- Chang, Cheh Yao, B.Sc. (Pekin Govt. University) 1916, Tientsin, China
 Sanitary Chemistry, Organic Chemistry (Chamot, Orndorff) A.M.
- Chapman, Wilbur Fiske, A.B. 1915, Philadelphia, Pa.
 Cancelled
- Chappell, John Thomas, B.S. (Guilford) 1913, Houstonville, N. C.
 Organic Chemistry, Physical Chemistry, Physics (Orndorff, Briggs, Gibbs) Ph.D.
- Cheesman, Roy Walling, B.Arch. 1917, Rochester
 Architectural Design, History of Architecture (Burnham, Phelps) M.Arch.
- Cheung, Cheuk Kwan, B.S. 1916, Canton, China
 Pomology, Plant Physiology (Chandler, Knudson) M.S. in Agr.
- Chien, Chih Lan, B.S. 1917, Chekiang, China
 Plant Breeding, Floriculture (Barker, White) M.S. in Agr.
- Childs, George Henshaw, B.A. (Minnesota) 1914; M.A. (same) 1915, Minneapolis, Minn.
 Insect Morphology, Insect Ecology, Botany (Riley, Needham, Wiegand) Ph.D.
- Chiu, Hsieh Chun, B.S. in C.E. (Govt. Inst. of Technology) 1917, Chekiang, China
 Bridge Engineering, Railroad Engineering (Jacoby, Barnes) M.C.E.
- Claassen, Peter Walter, A.B. (Kansas) 1913; A.M. (Kansas) 1915, Lawrence, Kan.
 Biology, Morphology of Insects, Economic Entomology (Needham, Riley, Herrick) Ph.D.
- Clark, Charles Parsons, B.S. 1915, Skaneateles
 Farm Management, Farm Crops (Warren, Montgomery) M.S. in Agr.
- Clark, Marian Weller, B.A. (Univ. of S. California) 1917, Los Angeles, Cal.
 Literary Criticism, English Literature (Cooper, Gilbert) A.M.
- ††Cockcroft, Katherine, A.B. 1918, Troy
 Latin, Greek (Bennett, Bristol) A.M.
- Cohen, Julius, A.B. (Illinois) 1917, Champaign, Ill.
 Philosophy, Psychology (Creighton, Albee, Weld) A.M.
- ††Cohn, Philip, B.S. 1918, New York City
 Botany, Organic Chemistry (Eames, Orndorff) A.M.
- Collins, Marie Taylor, A.B. (Wellesley) 1913; A.M. (Kansas) 1914, Kansas City, Mo.
 Logic and Metaphysics, Ethics, Psychology (Creighton, Thilly, Hammond, Weld) Ph.D.
- Colucci, Frank, A.B. (Rochester) 1916, Holley
 French, Spanish (Mason, Keniston) A.M.
- Conklin, Henry Ernest, A.B. 1915; A.M. 1916, Roslyn
 English, Old English, Philosophy (Cooper, Monroe, Creighton) Ph.D.
- Corrington, Julian Dana, A.B. 1913, Hot Springs, Ark.
 Comparative Vertebrate Morphology, Histology and Embryology, Systematic Vertebrate
 Zoology (Reed, Kingsbury, Wright) Ph.D.
- Cowan, Ralph Waldo Emerson, B.S. 1916, Ithaca
 Dairy Bacteriology, Plant Physiology, Sanitary Chemistry (Stocking, Curtis, Chamot) Ph.D.
- Crane, Clara Whitney, A.B. (Radcliffe) 1914, Bridgewater, Mass.
 Literary Criticism, English Literature (Cooper, Gilbert) A.M.
- Cressell, Mae, B.A. in Ed. (Iowa State Teacher's College) 1908, Cedar Falls, Ia.
 Botany, Entomology (Wiegand, Needham) A.M.
- Cusick, James Thomas, B.S. (Colgate) 1907, Ithaca
 Agricultural Chemistry, Dairy Bacteriology, Sanitary Chemistry (Cavanaugh, Stocking, Chamot) Ph.D.
- Davis, Henry Kennedy, A.B. 1912, St. Johnsville
 Anatomy, Physiology, Histology and Embryology (Kerr, Simpson, Kingsbury) Ph.D.
- Demaree, Chester Columbus, A.B. (Wabash) 1916, Jamestown, Ind.
 Plant Physiology, Plant Pathology, Physical Chemistry (Knudson, Curtis, Whetzel, Healer, Briggs) Ph.D.
- DeMott, Henry Vroom, B.S. 1915; M.S. in Agr. 1917, Metuchen, N. J.
 Pomology, Botany, Meteorology (Overholser, Wiegand, Wilson) Ph.D.
- Diefenbach, William Theodore, B.Chem. 1915, Utica
 Chemical Microscopy, Physical Chemistry, Economic Geology (Chamot, Bancroft, Ries) Ph.D.
- Dietrich, Henry, B.S. 1917, Schenectady
 Systematic Entomology, Insect Morphology (Van Dyke, Riley) M.S.
- Dimmick, Forrest Lee, A.B. 1915, Ithaca
 Psychology, Educational Psychology, Physiology (Titchener, Ogden, Simpson) Ph.D.
- Dunlap, Vining Campbell, A.B. (Bates) 1914; A.M. 1916, Bowdoinham, Me.
 Botany (Mycology) Botany (Ecology), Zoology (Systematic) (Atkinson, Rowlee, Wright) Ph.D.
- Dusham, Edward Henry, A.B. (Dartmouth) 1910; M.S. (Penn. State) 1915, State College, Pa.
 Insect Ecology, Insect Morphology, Economic Entomology (Needham, Riley, Herrick, Matheson) Ph.D.

- Dye, Harry Wilmer, B.S. (Wisconsin) 1915; M.S. in Agr. 1916 New Matamora, Ohio
 Plant Pathology, Plant Breeding, Plant Physiology (Whetzel, Emerson, Knudson) Ph.D.
- Dye, J. Alma, A.B. (Brigham Young) 1916, Basalt, Idaho
 Human Physiology, Biochemistry, Bacteriology (Dresbach, Sumner, Moore) Ph.D.
- Dynes, Oliver Wesley, B.S. (North Dakota Agr.) 1907; M.S. in Agr. (Cornell) 1912, Fargo, N. D.
 Farm Crops, Plant Breeding, Soils (Montgomery, Love, Emerson, Bizzell) Ph.D.
- Elliott, Robert Drane, B.S. (Texas A. and M.) 1917, Corsicana, Tex.
 Electrical Machinery, Experimental Engineering (Gray, Diederichs) M.S.
- Erickson, Lawrence, B.A. (Minnesota) 1915, Litchfield, Minn.
 Botany (Histology), Plant Physiology, Mycology (Eames, Knudson, Fitzpatrick) Ph.D.
- Erskine, Archibald Mortimer, B.Chem. 1914, Ithaca
 Inorganic Chemistry, Physical Chemistry, Organic Chemistry (Browne, Briggs, Orndorff) Ph.D.
- Fang, Sze Voo, B.S. 1917, Tali, China
 Rural Economy, Economic Theory (Lauman, Davenport) A.M.
- Farnham, Marshall Evarts, B.S. 1917 Dunkirk
 Cancelled
- Fisher, Clyde Olin, A.B. (Trinity) 1911; A.M. (Columbia) 1916, Gatesville, N. C.
 Economics, Politics, Economic Theory (Willcox, Young, Orth, Davenport) Ph.D.
- Fisher, Mary Jones, A.B. 1906; A.M. 1916, Denton, Md.
 Plant Anatomy, Animal Morphology, Biology (Eames, Reed, Needham) Ph.D.
- Florence, Laura, B.Sc. (Aberdeen) 1909; M.A. (same) 1907; M.A. (Stanford) 1916, Aberdeen, Scotland
 Insect Morphology, Insect Ecology, Pathology and Bacteriology (Riley, Needham, Moore) Ph.D.
- Foglesong, John Edward, B.A. (Wabash) 1910; A.M. (Ohio State) 1912, Niagara Falls
 Inorganic Chemistry, Organic Chemistry, Physical Chemistry (Browne, Orndorff, Bancroft) Ph.D.
- Foord, James Alfred, B.S. (New Hampshire A. and M.) 1898; M.S. (Cornell) 1902, Amherst, Mass.
 Rural Economy, Economics, Animal Husbandry (Lauman, Willcox, Wing) Ph.D.
- Foster, Florence Merritt, A.B. 1897, Los Angeles, Cal.
 English, Ethics, Logic and Metaphysics (Cooper, Hammond, Creighton) Ph.D.
- Fraleigh, Percy Austin, A.B. 1917, Poughkeepsie
 Mathematical Analysis, Applied Mathematics (Hurwitz, Sharpe) A.M.
- Frost, Walter Sprague, B.S. (Tufts) 1912, Ithaca
 Inorganic Chemistry, Agricultural Chemistry, Soil Technology (Browne, Cross, Bizzell) Ph.D.
- Gaehr, Paul Frederick, A.B. 1902; A.M. 1905, Ithaca
- Gage, George Raymond, B.S. (Penn. State) 1914; M.S. (Michigan Agr.) 1915, Atlantic City, N. J.
 Plant Pathology, Plant Physiology, Organic Chemistry (Fitzpatrick, Knudson, Curtis, Orndorff) Ph.D.
- Gamble, Dean Le Fever, B.S. 1916, Ithaca
 Comparative Anatomy, Ornithology, Plant Anatomy (Reed, Allen, Eames) Ph.D.
- Georgia, Frederick Raymond, B.Chem. 1915, Ithaca
 Chemical Microscopy, Biochemistry, Bacteriology (Chamot, Sumner, Moore) Ph.D.
- Gibbons, Lois Oliphant, A.B. (Michigan) 1912; M.A. (Pennsylvania) 1914, Philadelphia, Pa.
 Medieval History, English History, German Literature (Burr, Sweet, Davidsen) Ph.D.
- †Gifford, James Parsons, A.B. (Harvard) 1914, White Plains
 [Adviser: Professor R. S. Hosmer.]
- Gilchrist, Raleigh, A.B. in Chem. (Montana) 1915, Great Falls, Mont.
 Inorganic Chemistry, Physical Chemistry, Analytical Chemistry (Dennis, Bancroft, Lundell) Ph.D.
- Gillett, Roy Lewis, B.S. 1917, Colden
 Farm Management, Economics, Soils (Warren, Davenport, Bizzell) Ph.D.
- Ginsburg, Samuel, B.S. 1917, Brooklyn
 Agricultural Chemistry, Plant Physiology (Cavanaugh, Knudson) M.S.
- Gleason, Josephine Mixer, A.B. (Vassar) 1914, North Adams, Mass.
 Psychology, Educational Psychology, Mathematics (Titchener, Ogden, McMahon) Ph.D.
- †Gomez, Angel Kaingal, D.V.M. (Univ. of the Philippines) 1914, Manila, P. I.
 [Adviser: Professor V. A. Moore.]
- Grantham, Guy Everett, A.B. (Indiana) 1909; A.M. (same) 1913, New Richmond, Ind.
 Experimental Physics, Theoretical Physics, Alternating Currents (Gibbs, Merritt, Nichols, Bedell) Ph.D.
- Greenberg, Henry Wolfe, A.B. 1917, Flushing
 Latin, German (Durham, Pope) A.M.
- Greenland, Cyril Walter, B.S. (Queen's Univ.) 1913, Port Arthur, Can.
 Economic Geology, Mineralogy, Physical Chemistry (Ries, Bancroft) Ph.D.
- Haber, Vernon Raymond, B.Sc. (Ohio State) 1914; M.A. (same) 1916, Rossburg, O.
 Insect Morphology, Economic Entomology, Systematic Zoology (Riley, Herrick, Matheson, Wright) Ph.D.
- Hagan, William Arthur, D.V.M. (Kansas State Agr.) 1915; M.S. (Cornell) 1917, Manhattan, Kan.
 Veterinary Bacteriology, Veterinary Obstetrics, Parasitology (Moore, Williams, Riley) Ph.D.
- Haines, George, B.S. 1917, Pleasantville
 Animal Husbandry, Plant Pathology (Harper, Gregory, Stewart) M.S. in Agr.
- ††Hall, Ina Winning, A.B. 1918, New York City
 English Literature, Old English (Adams, Monroe) A.M.
- Hamilton, Clyde Carney, B.S. (Kansas State Agr.) 1913; M.S. (Illinois) 1916, Haswell, Col.
 Limnology, Insect Histology and Morphology, Systematic Entomology (Needham, Riley, Van Dyke) Ph.D.
- Hancy, Anna Jane, A.B. 1912; A.M. 1916, Hayts' Corners
 Plant Histology, Zoology, Plant Physiology (Eames, Reed, Knudson) Ph.D.

- Harlan, Clara May, A.B. (Indiana) 1913; A.M. (Cornell) 1917, Indianapolis, Ind.
Harris, Marjorie Silliman, B.A. (Mt. Holyoke) 1913, Wethersfield, Conn.
Logic and Metaphysics, Ethics, Education (Creighton, Albee, Hammond, Thilly, Ogden) Ph.D.
Hayes, John William, B.S. in Chem. (Syracuse) 1917, Solvay
Physical Chemistry, Organic Chemistry, Inorganic Chemistry (Briggs, Orndorff, Browne) Ph.D.
†Healey, Lolita Evelyn, A.B. (Radcliffe) 1913, Ithaca
[Adviser: Professor Rose.]
Hedger, George Andrews, A.B. (Univ. of Utah) 1906, Salt Lake City, Utah
Modern European History, Political Science, Political Economy (Becker, Orth, Usher) Ph.D.
†Henry, Mary Francis, A.B. (Colorado College) 1905, Denver, Col.
[Adviser: Professor Flora Rose.]
Hertig, Marshall, B.S. (Minnesota) 1916, Minneapolis, Minn.
Parasitology, Bacteriology, Entomology (Riley, Moore, Johannsen) Ph.D.
Hespelt, Ernest Herman, A.B. 1916, Johnstown
German Literature, German Philology, Spanish Literature (Davidsen, Faust, Boesche, Keniston) Ph.D.
Heuser, Gustave Frederick, B.S. 19 5; M.S. in Agr. 1916, Buffalo
Poultry Husbandry, Rural Education, Histology and Embryology (Rice, Works, Ogden, Kingsbury) Ph.D.
Hill, Roland Hurdon, A.B. 1916, St. Louis, Mo.
Biochemistry, Physical Chemistry, Organic Chemistry (Sumner, Bancroft, Orndorff) Ph.D.
Ho, Yun Huang, A.B. 1917, Wuchang, China
Mathematical Analysis, Geometry, Physics (Hurwitz, Snyder, Richtmyer) Ph.D.
Hoel, Archie Bernhard, B.A. (Montana) 1916, Menomonie, Wis.
Inorganic Chemistry, Analytical Chemistry, Electro-Chemistry (Browne, Lundell, Briggs) Ph.D.
Hogg, Edith Esther, B.S. 1917, Titusville
Hoisington, Louis Benjamin, B.A. (Oregon) 1915, Eugene, Ore.
Psychology, Educational Psychology, Physiology (Titchener, Ogden, Simpson) Ph.D.
Holland, Robert Thomas, A.M. (Northwestern) 1911, Scottsville, Ky.
Psychology, Education, Physiology (Titchener, Ogden, Simpson) Ph.D.
Holmes, Jean Dalziel, A.B. 1916, Washington, D. C.
Botany, Ornithology (Rowlee, Allen) A.M.
Howell, Eric Vail, C.E. 1914, Southampton
Experimental Hydraulics, Highway Engineering (Turner, Barnes) M.C.E.
†Howell, Jessie Everts, B.S. 1912, Elmira
[Adviser: B. Blackmore.]
Huang, Chia Chi, B.S. in C.E. (Govt. Inst. of Technology) 1917, Kwangtung, China
Bridge Engineering, Railroad Engineering (Jacoby, Barnes) M.C.E.
†Huelson, Walter August, B.S. 1917, Brooklyn
[Adviser: Professor J. A. Bizzell.]
Hughes, Martin Collins, B.S. in C.E. (Illinois) 1917, Ithaca
Physics, Electrical Machinery (Nichols, Gray) M.M.E.
†Humphrey, Helen Harmon, A.B. (Pomona) 1915, Claremont, Cal.
[Adviser: Professor E. A. White.]
Jackson, Howard Campbell, B.S. 1915, Trumansburg
Dairy Industry, Dairy Bacteriology, Organic Chemistry (Guthrie, Stocking, Orndorff) Ph.D.
Jackson, Stuart Deming, A.B. 1916, Cincinnati, O.
Organic Chemistry, Analytical Chemistry, Physical Chemistry (Orndorff, Dennis, Briggs) Ph.D.
Jenness, James Russell, S.B. (Denison) 1906, Chrisman, Ill.
General Physics, Light (Richtmyer, Nichols, Gibbs) Ph.D.
Jensen, Ward C., B.S. (Univ. of California) 1917, Omaha, Nebr.
Farm Crops, Botany (Montgomery, Knudson) M.S. in Agr.
Joffrion, Doris Kernan, B.A. (Sophie Newcomb College, Tulane Univ.) 1917, Marksville, La.
English Literature, American Literature (Adams, Prescott) A.M.
Joyce, John Berry, B.S. (Texas A. & M.) 1917, Brady, Tex.
Electrical Machinery, Experimental Engineering (Gray, Diederichs) M.S.
Kennedy, James Arthur, A.B. 1917, Dannemora
Sanitary Chemistry, Analytical Chemistry (Chamot, Cavanaugh) A.M.
Kennell, Lester Spruce, A.B. (Rochester) 1913; A.M. (same) 1916, Rochester
Spanish, French, Italian (Keniston, Mason, Hamilton) Ph.D.
Kincaid, Margaret, A.B. (Vassar) 1917, Brooklyn
Mathematics, Psychology (McMahon, Weld) A.M.
Knauss, James Owen, B.A. (Lehigh) 1910; A.M. (Harvard) 1913, State College, Pa.
German Literature, German Philology, Modern European History (Faust, Pope, Becker) Ph.D.
Komp, William H. Wood, B.Sc. (Rutgers) 1916; M.Sc. (same) 1917, Metuchen, N. J.
Entomology, Economic Entomology, Systematic Entomology (Needham, Herrick, Johannsen) Ph.D.
Kraus, Albert Abraham, New Brighton
Silviculture, Forest Utilization (Hosmer, Spring, Bentley) M.F.
Krum, Olin Clifford, B.S. 1917, Ithaca
Poultry Husbandry, Ornithology (Kent, Allen) M.S. in Agr.
Kuo, Yang Mo, A.T.E.C. (Tangshan Eng.) 1917, Wush, China
Sanitary Engineering, Bridge Engineering (Ogden, Jacoby) M.C.E.
Lacy, Leslie Verne, B.Arch. (1917), Skaneateles
Architectural Design, History of Architecture (Burnham, Phelps) M.Arch.
deLaski, Edgar Gustave, A.B. 1917, Weehawken, N. J.
Philosophy, Psychology (Creighton, Weld) A.M.

- Latta, John Stephens, B.A. (Miami University) 1916, College Corner, O.
Histology and Embryology, Comparative Vertebrate Anatomy, Entomology (Kingsbury, Reed, Needham) Ph.D.
- Lauritzen, John Irwin, B.S. (Utah Agricultural) 1913, Moroni, Utah
Plant Pathology, Plant Physiology, Physical Chemistry (Reddick, Stewart, Knudson, Curtis, Briggs) Ph.D.
- Lebowsky, Harry, B.S. 1917, Brooklyn
Plant Physiology, Forestry (Knudson, Hosmer) A.M.
- Leister, Claude Willard, B.S. 1917, West Point, Pa.
Ornithology, Systematic Zoology (Allen, Wright) A.M.
- ††Levine, Joseph, A.B. 1918, Brooklyn
American Literature, American History (Prescott, Bretz) A.M.
- Liu, Cheng Ling, B.S. 1917, Shanghai, China
Poultry Husbandry, Organic Chemistry (Benjamin, Orndorff) M.S.
- Louder, Earl Albert, B.S. (Huron College) 1916, Huron, S. D.
Inorganic Chemistry, Physical Chemistry, Organic Chemistry (Browne, Briggs, Orndorff) Ph.D.
- McElroy, Margaret Julia, B.A. 1913, Iowa City, Ia.
English Literature, Education (Strunk, Ogden) A.M.
- †McGinnis, Forrest William, B.S. (Oregon State) 1911, Corvallis, Ore.
[Adviser: E. G. Montgomery.]
- McKinney, Asa Emanuel, A.B. (Indiana) 1914; A.M. (same) 1915, Scircleville, Ind.
Inorganic Chemistry, Physical Chemistry, Agricultural Chemistry (Browne, Bancroft, Cavanaugh) Ph.D.
- McRostie, Gordon Peter, B.S.A. (Toronto) 1912, Guelph, Ont.
Plant Breeding, Plant Pathology, Soil Technology (Emerson, Barrus, Bizzell) Ph.D.
- †Maier, Dorothy Carol, A.B. 1917, Bloomfield, N. J.
[Adviser: Professor Lane Cooper.]
- Martin, Elma G., B.Ph. (Denison) 1907, Holland, Mich.
Modern European History, English (Becker, Monroe) A.M.
- Martin, Thomas Lysons, B.A. (Birgham Young) 1912, American Fork, Utah
Soil Technology, Plant Physiology, Bacteriology (Bizzell, Lyon, Knudson, Moore) Ph.D.
- ††Mayer, Ludwig Stolz, B.S. 1918, Ithaca
Farm Crops, Plant Breeding (Montgomery, Myers) M.S.
- Meade, De Voe, B.S. (Penn. State) 1911, Ithaca
Animal Husbandry, Farm Management, Plant Breeding (Wing, Warren, Myers) Ph.D.
- Mekeel, Amy Grace, A.B. 1910, Trumansburg
Taxonomic Botany, Zoology (Wiegand, Reed) A.M.
- Mendiola, Nemesio Blanco, B.S. (Univ. of the Philippines) 1914; M.S. (same) 1916, Los Banos, Laguna, P. I.
Plant Breeding, Plant Physiology, Farm Crops (Myers, Knudson, Curtis, Montgomery) Ph.D.
- Metzger, Ruth Isidor, B.A. (Vassar) 1915, Elmira
Pomology, Floriculture (Heinicke, White) A.M.
- Meyer, Robert William, Ph.B. (Bucknell) 1912; B.S. (Penn. State) 1914, Warsaw, N. C.
- †Middleton, Gordon Kennedy, B.S. (North Carolina A. & M.) 1917, [Adviser: Professor E. G. Montgomery.]
- Miller, Frederick William Addison, Ph.B. (Brown) 1915; M.A. (same) 1916, Ivoryton, Conn.
Logic and Metaphysics, Ethics, Psychology (Creighton, Albee, Hammond, Thilly, Weld) Ph.D.
- Misner, Edward Gardner, B.S. 1913, Dairyland
Farm Management, Animal Husbandry, Dairy Industry (Warren, Livermore, Savage, Ross, Guthrie) Ph.D.
- Mordoff, Richard Alan, B.S. in Agr. 1911, Ithaca
Meteorology, Cost Accounting, Physical Geography (Wilson, Livermore, von Engeln) Ph.D.
- †Mordoff, William Emerson, M.E. 1913, Ithaca
[Adviser: Professor D. S. Kimball.]
- Morrow, Hugh Ellis, B.S.A. (Arkansas) 1904, Brooklyn
Physiological Chemistry, Physiology, Preventive Medicine (Benedict, Lusk, Torrey) Ph.D.
- Moses, Winifred, B.S. 1915, Ithaca
Biochemistry, Physical Chemistry, Sanitary Chemistry (Sumner, Briggs, Chamot) Ph.D.
- Muenscher, Walter Conrad, A.B. (Washington State) 1914; M.A. (Univ. of Nebraska) 1915, Lynden, Wash.
Plant Physiology, Botany (Algae), Plant Pathology (Curtis, Schramm, Fitzpatrick) Ph.D.
- Murphy, Helen Elizabeth, B.S. 1917, Phoenix
Limnology, Parasitology (Needham, Riley) M.S.
- Nakahara, Waro, B.S. (Tokyo Agr. College) 1915; A.M. 1917, Tokyo, Japan
Insect Morphology, Systematic Entomology, Histology and Embryology (Riley, Needham, Kingsbury) Ph.D.
- Nanz, Ralph Simpson, B.S. 1912, Ithaca
Plant Physiology, Botany (Taxonomy), Physical Chemistry (Knudson, Curtis, Wiegand, Briggs) Ph.D.
- Noble, Clarence Vernon, B.S. 1916, Ithaca
Farm Management, Farm Crops, Animal Husbandry (Livermore, Warren, Montgomery, Savage) Ph.D.
- Norton, Laurence Joseph, B.S. 1917, Middle Granville
Farm Management, Economic Theory, Rural Education, (Warren, Davenport, Works, Lauman) Ph.D.
- Paine, Ernest Trowbridge, A.B. (Brown) 1901; A.M. (same) 1903, Ithaca
Logic and Metaphysics, Ethics, Greek and Medieval Philosophy (Creighton, Albee, Thilly, Hammond) Ph.D.
- †Parks, Charles John, Ph.B. (Alfred) 1907, Ithaca
[Adviser: Professor G. A. Works.]

- Pekary, Charlotte Helen, A.B. 1915; A.M. 1916, Brooklyn
German Literature, German Philology, French (Davidsen, Boesche, Mason) Ph.D.
- Petty, Franklin William, B.A. (Maine) 1910, Fall River, Mass.
Economic Entomology, Systematic Entomology, Biology (Herrick, Van Dyke, Johannsen) Ph.D.
- Ping, Chih, B.S. 1913, Kai Feng, Ho-Nan, China
Biology, Entomology, Vertebrate Zoology (Needham, Johannsen, Reed) Ph.D.
- Pollard, Frank Howell, B.Chem. 1916, Auburn
Inorganic Chemistry, Physical Chemistry, Agricultural Chemistry (Browne, Briggs, Cavanaugh) Ph.D.
- Porter, Joseph Pullman, B.S. 1917, New Rochelle
Landscape Design, Plant Materials (Davis, Curtis) M.L.D.
- †Quick, Ray Lewis, M.E. 1909, Ithaca
[Adviser: Professor W. M. Sawdon.]
- Rader, Alexander Knox, A.B. (Kansas) 1915; A.M. (same) 1917, Howard, Kan.
Economics, Social Science, Political Science (Davenport, Willcox, Orth) Ph.D.
- Rand, Ruth, A.B. (Wellesley) 1916; A.M. (Cornell) 1917, Brooklyn
Histology, Physiology, Anatomy (Kingsbury, Simpson, Kerr) Ph.D.
- Rehfield, Frances Eugenia Hiles, A.B. 1917, Milwaukee, Wis.
Philosophy, English Drama (Hammond, Sampson) A.M.
- Richardson, Lawrence, M.E. 1910, Louisville, Ky.
Experimental Engineering, Engineering Mathematics (Sawdon, Karapetoff) M.M.E.
- Rider, Arthur John, B.S. (Colgate) 1912; M.S. (Colgate) 1914, Apalachin
Physical Chemistry, Inorganic Chemistry, Sanitary Chemistry (Bancroft, Dennis, Chamot) Ph.D.
- Robison, George Merritt, A.B. 1916; A.M. 1917, Cranberry Creek
Mathematical Analysis, Geometry, Physics (Hurwitz, Snyder, Nichols) Ph.D.
- Schelleng, John Christopher, A.B. 1915, Ithaca
Experimental Physics, Theoretical Physics, Physical Chemistry (Richtmyer, Nichols, Briggs) Ph.D.
- von Schenk, Kurt, Graduate (Connecticut Agr. College) 1910; A.B. (Harvard) 1913; M.S. in Ithaca
Agr. (Cornell) 1917, Rural Economy, Economic History, Economics and Finance (Lauman, Usher, Reed) Ph.D.
- Schindler, Theresa Elizabeth, B.A. (Mt. Holyoke) 1906, Gloversville
Floriculture, Botany (White, Wiegand) M.S.
- †Seamon, Helen, B.A. (Wellesley) 1916, Freeport
[Adviser: Professor K. M. Wiegand.]
- Severance, Mildred, A.B. 1915, Buffalo
Shadle, Albert Ray, B.A. (Ohio State) 1913; M.A. (same) 1915, Lockbourne, O.
Zoology, Limnology, Histology (Reed, Needham, Kingsbury) Ph.D.
- Sheridan, Joseph Talbot, A.B. 1917, Richmond Hill
Human Anatomy, Physiology (Kerr, Simpson) A.M.
- Sie, William Kia-shen, B.A. (University of Nanking) 1914, Nanking, China
Plant Pathology, Farm Crops, Histology (Whetzel, Gregory, Montgomery, Eames) Ph.D.
- Smiley, Edwina Maria, B.A. (Wellesley) 1916, Mansfield, Mass.
Plant Pathology, Histology (Whetzel, Stewart, Eames) A.M.
- Smith, Benjamin Harrison, A.B. (Wabash) 1917, New Richmond, Ind.
Plant Pathology, Histology, Plant Physiology (Whetzel, Gregory, Eames, Knudson) Ph.D.
- Smith, Ernest Edward, A.B. 1916, Skaneateles
Experimental Physics, Theoretical Physics (Richtmyer, Nichols) A.M.
- Smith, Fred Manning, A.B. (West Virginia University) 1917; B.A. (Oxford) 1917, Huntington, W. Va.
English Language, French (Romance) Philology, Germanic Philology (Northup, Pumpelly, Andrews) Ph.D.
- Smith, Raymond Stratton, B.S. (Pomona) 1907; B.S. (Illinois) 1913; M.S. (Penn. State) 1916, State College, Pa.
Soils, Geology, Plant Physiology (Bizzell, von Engeln, Knudson) Ph.D.
- Stewart, Fred Waldorf, A.B. 1916, Binghamton
Histology and Embryology, Physiology, Zoology (Kingsbury, Simpson, Reed) Ph.D.
- Stewart, Ralph Berry, M.E. 1917, Pelzer, S. C.
Electrical Machinery, Engineering Mathematics (Gray, Karapetoff) M.M.E.
- Stobbs, William Malcolm, A.B. 1915, Ithaca
Anatomy, Histology and Embryology (Kerr, Kingsbury) A.M.
- Stork, Harvey Elmer, A.B. (Indiana State Normal) 1914, Huntingburg, Ind.
Botany, (Mycology), Botany (Morphology and Embryology), Vertebrate Embryology (Atkinson, Rowlee, Kingsbury) Ph.D.
- †Stover, Albert J., A.B. 1914; LL.B. (Univ. of Buffalo) 1917, Buffalo
[Adviser: Professor A. T. Kerr.]
- Sturges, Herbert Arthur, A.B. (Oberlin) 1904, Mansfield, O.
Statistics, Mathematics, Economics (Willcox, McMahon, Davenport) Ph.D.
- Supplee, George Cornell, B.S. 1913, Ithaca
Bacteriology, Sanitary Chemistry, Biochemistry (Stocking, Chamot, Sumner) Ph.D.
- Sutton, Henry Bruner, A.B. 1916, Albion
Anatomy, Physiology (Kerr, Simpson) A.M.
- Swabey, William Curtis, A.B. (Leland Stanford) 1915, Riverside, Ill.
Logic and Metaphysics, Ethics, Psychology (Creighton, Thilly, Weld) Ph.D.
- Tan, Vidal Arceo, B.A. (Univ. of the Philippines) 1913, Manila, Philippines
Mathematics, Engineering (Gaba, Jacoby) A.M.
- Tapke, Victor Ferdinand, B.S. (Ohio State) 1914, Ithaca
Plant Pathology, Plant Physiology, Botany (Reddick, Whetzel, Knudson, [Curtis, Eames, Wiegand]) Ph.D.

- Thomas, Cecil Calvert, A.B. (Wabash) 1912; M.A. (same) 1913, Ithaca
 Botany (Algae), Plant Pathology, Biochemistry (Schramm, Whetzel, Reddick, Sumner) Ph.D.
- Tomfohrde, Albert, B.A. (Rice Institute) 1917, Houston, Tex.
 Logic and Metaphysics, Ethics, Education (Creighton, Albee, Thilly, Hammond, Ogden) Ph.D.
- Traxel, Emma Jane, B.S. 1899; A.M. 1917, Rome
 French, German Literature, German Philology (Mason, Faust, Boesche) Ph.D.
- Turpin, Harold Worthington, B.S. in Agron. (Iowa State) 1916, Ithaca
 Soil Technology, Plant Physiology, Physical Chemistry (Bizzell, Knudson, Briggs) Ph.D.
- Van Dyck, Miriam Hasbrouck, A.B. (Vassar) 1912, Newark
 German Literature, German Philology (Davidsen, Boesche) A.M.
- Wann, Frank Burkett, A.B. (Wabash) 1914, Warsaw, Ind.
 Botany, Plant Cytology, Biochemistry (Schramm, Sharp, Sumner) Ph.D.
- Wehrle, Lawrence Paul, B.S. (Kansas State Agr.) 1914, Scranton, Kan.
 Economic Entomology, Insect Morphology, Systematic Entomology (Matheson, Riley, Johannsen) Ph.D.
- Weiss, Freeman, B.S. 1915, Minneapolis, Minn.
 Plant Pathology, Plant Histology, Plant Physiology (Reddick, Eames, Knudson) Ph.D.
- Wellhouse, Walter Housley, A.B. (Kansas) 1913; A.M. (same) 1917, Ithaca
 Economic Entomology, Pomology, Zoology (Herrick, Overholser, Reed) Ph.D.
- deWet, Charl Louis Roux, B.S. (Iowa State) 1916, Cape Town, S. Africa
 Soil Technology, Geology, Plant Physiology (Bizzell, von Engeln, Curtis) Ph.D.
- White, Ward Benjamin, A.B. 1908, Ithaca
 Agricultural Chemistry, Sanitary Chemistry, Pathology (Cavanaugh, Chamot, Moore) Ph.D.
- Whiting, William Alonzo, B.S. (Allegheny) 1914, Meadville, Pa.
 Dairy Bacteriology, Organic Chemistry, Biochemistry (Stocking, Orndorff, Sumner) Ph.D.
- Wichelns, Herbert August, A.B. 1916, Brooklyn
 English, Old English, Philosophy (Cooper, Monroe, Creighton) Ph.D.
- Willis, Geraldine Margaret, A.B. 1917, Ithaca
 Literary Criticism, English Literature (Cooper, Gilbert) A.M.
- Wolcott, Rosamond, B.Arch. 1917, Utica
 Design, Interior Decoration (Burnham, Stevens) M.Arch.
- Wong, Chun, B.S. 1916, Canton, China
 Floriculture, Pomology (Lumsden, Heinicke) M.S. in Agr.
- Wright, Ivan, B.A. (Iowa Teacher's) 1913; B.S., M.S. (Michigan Agricultural College) 1917, Lawford, W. Va.
 Rural Economy, Economics and Finance, Economic History (Lauman, Reed, Usher) Ph.D.
- Wyckoff, Ralph W., B.S. (Hobart) 1916, Geneva
 Inorganic Chemistry, Physical Chemistry, Analytical Chemistry (Browne, Briggs, Dennis) Ph.D.
- Yih, Charles Robert, A.B. (Soo Chow) 1914; B.S. (same) 1915, Soochow, China
 Insect Morphology, Histology and Embryology, Systematic Entomology (Riley, Kingsbury, Johannsen) Ph.D.
- Young, Benjamin Percy, B.S. (Kansas) 1908, Lawrence, Kan.
 Insect Morphology, Ecology, Zoology (Riley, Needham, Reed) Ph.D.
- Young, Ernest Charles, B.S. (Grove City College) 1914, Grove City, Pa.
 Farm Management, Animal Husbandry (Warren, Wing) A.M.
- Young, Paul Thomas, A.B. (Occidental) 1914; A.M. (Princeton) 1915, Los Angeles, Cal.
 Psychology, Education, Physiology (Titchener, Ogden, Simpson) Ph.D.

STUDENTS REGISTERED FOR GRADUATE WORK DURING THE SUMMER OF 1917

Anderson, Ernest Gustaf, B.Sc.A. (Nebraska, 1915)	Concord, Nebr.
Plant Breeding, Plant Histology, Organic Chemistry (Emerson, Eames, Orndorff)	Ph.D.
Apgar, Clara Selkreg, A.B. 1905,	Ithaca
Latin, Ancient History (Durham, Sill)	A.M.
Baerg, William J., A.B. (Kansas) 1915,	Lawrence, Kan.
Economic Entomology, Entomology, Zoology (Needham, Herrick, Matheson, Wright)	Ph.D.
Beatty, Archie Smith, B.S. 1912,	Pittsburgh, Pa.
Horticulture, Economic Entomology (Heinicke, Matheson)	M.S. in Agr.
Bechtel, Albert Reiff, B.S. (Pennsylvania) 1912; M.A. (same) 1912,	Royersford, Pa.
Taxonomic and Ecological Botany, Plant Pathology, Floriculture (Wiegand, Fitzpatrick, White)	Ph.D.
Beziat, Kate Bradley, A.B. 1892,	Spencer
French, Spanish (Comfort, Keniston)	A.M.
†Bohannon, Charles Dudley, A.B. (Teacher's College, University of Nebraska), 1910,	Ithaca
[Adviser: G. A. Works.]	
Boshnakian, Sarkis, B.S. in Agr. (Wisconsin) 1914; M.S. in Agr. (Cornell) 1915,	Madison, Wis.
Plant Breeding, Plant Physiology, Floriculture (Love, Knudson, Curtis, White)	Ph.D.
Brandes, Elmer Walker, B.S. (Michigan Agr. College) 1913; M.S. (same) 1915,	Detroit, Mich
Plant Pathology, Plant Physiology, Botany (Whetzel, Knudson, Wiegand)	Ph.D.
Brannon, James Marshall, B.A. (University of North Dakota) 1907; A.M. (same),	Ithaca
Plant Physiology, Botany, Limnology (Knudson, Curtis, Sharp, Needham)	Ph.D.
Bregger, Thomas, B.S. (Illinois) 1910,	Ithaca
Plant Breeding, Plant Physiology, Organic Chemistry (Emerson, Knudson, Curtis, Orndorff)	Ph.D.
Bussell, Frank Pores, A.B. (Colgate) 1901,	Ithaca
Plant Breeding, Plant Physiology, Soil Technology (Love, Knudson, Curtis, Bizzell)	Ph.D.
Carrick, Doak Bain, A.B. (Wake Forest) 1910,	High Point, N. C.
Pomology, Organic Chemistry, Floriculture (Chandler, Orndorff, White)	Ph.D.
Cowan, Ralph Waldo Emerson, B.S. 1916,	Ithaca
Dairy Bacteriology, Plant Physiology, Sanitary Chemistry (Stocking, Curtis, Chamot)	Ph.D.
Chandler, Wallace Larkin, B.S. (California) 1914; M.S. (same) 1915,	Ithaca
Physiology, Entomology (Parasitology), Sanitary Chemistry (Riley, Dresbach, Chamot)	Ph.D.
Cheung, Cheuk Kwan, B.S., 1916,	Canton, China
Pomology, Plant Physiology (Chandler, Knudson)	M.S. in Agr.
Chien, Chih Lan, B.S. 1917,	Chekiang, China
Plant Breeding, Floriculture (Barker, White)	M.S. in Agr.
Cook, Leon Emory, A.B. 1913; B.S. in Agr. 1914,	Worcester
Rural Education, Education, Farm Crops (Works, Ogden, Montgomery)	M.S. in Agr.
Craugh, Joseph Patrick, A.B. (Holy Cross) 1914,	Penn Yan
Latin, German (Durham, Davidsen)	A.M.
Cumming, Jane, A.B. (William Smith) 1912,	Geneva
Literary Criticism, English Literature (Cooper, Broughton)	A.M.
Cumming, Sarah Anne, A.B. (William Smith) 1916,	Geneva
English Language, English Literature (Monroe, Strunk)	A.M.
†Darrow, Edith Mary, A.B. (Middlebury) 1913,	Ithaca
[Adviser: A. J. Eames.]	
Davis, Nellie J., A.B. (Earlham) 1904,	Philadelphia, Pa.
English Literature, English Language (Cooper, Monroe)	A.M.
deWet, Charl Louis Roux, B.S. (Iowa State) 1916,	Capetown, S. Africa
Soil Technology, Geology, Plant Physiology (Bizzell, von Engeln, Curtis)	Ph.D.
Dietrich, Henry, B.S. 1917,	Schenectady
Systematic Entomology, Insect Morphology (Van Dyke, Riley)	M.S.
Dorsey, Ernest, B.S. (Minnesota) 1916,	Dresden, O.
Plant Breeding, General Botany, Plant Physiology (Love, Sharp, Curtis, Knudson)	Ph.D.
Dunwoody, Halsey, B.S. (Goerge Washington) 1905; U. S. Military Academy 1913,	West Point
Radio-Engineering, Experimental Physics (Prof. Shearer and Richtmyer)	A.M.
Dusham, Edward Henry, A.B. (Dartmouth) 1910; M.S. (Penn. State) 1915,	State College, Pa.
Economic Entomology, Insect Morphology, Insect Ecology (Herrick, Matheson, Riley, Needham)	Ph.D.
Eyster, William Henry, A.B. (Bucknell) 1914; A.B. (same)	Cortland
Plant Breeding, Plant Histology, Systematic Botany (Emerson, Eames, Rowlee)	Ph.D.
Farnham, Edith Anna, A.B. (Wellesley) 1914,	West Newton, Mass.
English History, English Literature (Lunt, Prescott)	A.M.
†Fess, Gilbert Malcolm, Ph.B. (Alfred) 1912; A.M. (Syracuse),	Crittenden
[Adviser: J. F. Mason.]	
Foord, James Alfred, B.S. (New Hampshire A. & M.) 1898; M.S. (Cornell) 1902,	Amherst, Mass.
Rural Economy, Economics and Finance, Animal Husbandry (Lauman, Young, Wing)	Ph.D.
†Forchheimer, Estelle, A.B. (N. Y. C. Normal College) 1893; M.P.D. (New York University),	New York City
[Adviser: W. K. Wright. Arts 4 hrs.]	
Gage, George R., B.S. (Penn. State) 1914; M.S. (Michigan Agr. College) 1915,	Atlantic City, N. J.
Plant Physiology, Mycology, Organic Chemistry (Knudson, Curtis, Fitzpatrick, Orndorff)	Ph.D.

- Gardiner, Henry Wallace, A.B. (Michigan) 1912, Washington, D. C.
American History, Education (Bretz, Ogden) A.M.
- Gaynor, Madaleine Agathe, B.S. (Elmira) 1917, Elmira
French, Spanish (Mason, Keniston) A.M.
- Gillett, Roy Lewis, B.S. 1917, Colden
Farm Management, Economics, Soils (Warren, Davenport, Bizzell) Ph.D.
- Graham, V. Arvin, B.A. 1917, Richmond, Va.
Philosophy, Education (Creighton, Foster) A.M.
- Gram, Ernst, M.Sc. (Univ. of Copenhagen) 1915, Lyngley, Denmark
Entomology, Plant Pathology (Herrick, Matheson, Whetzel) A.M.
- Greenberg, Henry Wolfe, A.B. 1917, Flushing
Latin, German (Durham, Pope) A.M.
- Haber, Vernon Raymond, B.Sc. (Ohio State) 1914; M.A. (same) 1916, Rossburg, O.
Insect Morphology, Economic Entomology, Systematic Zoology (Riley, Matheson, Wright) Ph.D.
- Hamilton, Clyde Carney, B.S. (Kansas State Agr.) 1913; M.S. (Univ. of Illinois) 1916, Haswell, Col.
Limnology, Insect Histology and Morphology, Economic Entomology (Needham, Riley, Herrick, Matheson) Ph.D.
- Harvey, Lew Ellsworth, B.S. 1914, Marathon
Farm Management, Poultry Husbandry, Meteorology (Thompson, Livermore, Rice, Wilson) Ph.D.
- Hess, Walter Norton, A.B. (Oberlin) 1913; A.M. (Cornell) 1916, Great Valley
Insect Morphology, Economic Entomology, Zoology (Riley, Herrick, Matheson, Reed) Ph.D.
- Heuser, Gustave Frederick, B.S. 1915; M.S. in Agr. 1916, Buffalo
Poultry Husbandry, Rural Education, Histology and Embryology (Rice, Works, Ogden, Kingsbury) Ph.D.
- Hochheimer, Rita, A.B. (Barnard) 1909, New York City
German Literature, German Philology (Davidsen, Boesche) A.M.
- Hoffman, William Albert, B.S. 1917, New York City
Insect Morphology, Economic Entomology (Riley, Matheson) A.M.
- Hopkins, Edwin Fraser, B.S.J. 1915, Buffalo
Plant Pathology, Plant Physiology, Physical Chemistry (Whetzel, Knudson, Curtis, Briggs) Ph.D.
- Ireland, Joseph C., B.A. (Wabash) 1917, Lake Cicott, Ind.
Plant Pathology, Organic Chemistry, Plant Breeding (Whetzel, Mahood, Love) Ph.D.
- Jost, Bessie Lavinia, B.S. (Simmons) 1915, Boston, Mass.
Bacteriology, Physiology (Stocking, Simpson) A.M.
- Keever, Paul, B.Sc. (Muhlenberg) 1912, West Chester, Pa.
Education, Psychology (Ogden, Boring) A.M.
- Knowlton, Harry E., B.S. (Michigan Agr.) 1912, Fennville, Mich.
Plant Physiology, Physical Chemistry, Pomology (Curtis, Knudson, Briggs, Chandler) Ph.D.
- Kraus, Albert Abraham, B.S. 1917, New Brighton
Silviculture, Forest Utilization (Spring, Bentley) M.T.
- Land, Mrs. (Lindsay, Erma Campbell), A.B. 1911; A.M. 1913, N. Tonawanda
Latin, Greek, Archaeology (Bennett, Sterrett, Andrews) Ph.D.
- Lauritzen, John Irwin, B.S. (Utah Agr.) 1917, Morohi, Utah
Plant Pathology, Plant Physiology, Physical Chemistry (Reddick, Stewart, Knudson, Curtis, Briggs) Ph.D.
- McMillan, Samuel Augustus, B.S. (Texas A. & M.) 1909, Anchor, Texas
Farm Management, Soils (Warren, Livermore, Bizzell) M.S. in Agr.
- Martin, Thomas Lysons, B.A. (Brigham Young) 1912, American Fork, Utah
Soil Technology, Plant Physiology, Bacteriology (Lyon, Knudson, Fitch) Ph.D.
- Meade, De Voe, B.S. (Penn. State) 1911, Ithaca
Animal Husbandry, Farm Management, Plant Breeding (Wing, Warren, Myers) Ph.D.
- Mehmedoff, Mehmed Ali, Constantinople, Turkey
Plant Breeding, Plant Pathology (Love, Whetzel) M.S.
- Mekeel, Amy Grace, A.B. 1916, Trumansburg
Taxonomic Botany, Zoology (Wiegand, Reed) A.M.
- Mendiola, Nemesio Blanco, B.S. (Univ. of the Philipines) 1914; M.S. (same) 1916, Los Banor, Laguna, P. I.
Plant Breeding, Plant Physiology, Farm Crops (Myers, Knudson, Curtis, Montgomery) Ph.D.
- Miller, Alfa, A.B. (Kansas State University) 1913, Lawrence, Kan.
Biology, Entomology (Needham, Matheson) A.M.
- Misner, Edward Gardner, B.S. 1913, Dairyland
Farm Management, Animal Husbandry, Dairy Industry (Warren, Livermore, Savage, Ross) Ph.D.
- Moesal, Julia, A.B. 1916, Buffalo
Zoology, Botany (Wright, Eames, Wiegand) A.M.
- Monnett, Victor Elvert, A.B. (Oklahoma State) 1912, Norman, Okla.
Physical Geography, Economic Geology, Soil Technology (von Engeln, Ries, Bizzell) Ph.D.
- Moon, Merl Perrott, A.B. 1915, Beaver Falls, Pa.
Dairy Industry, Organic Chemistry (Ross, Orndorff) M.S. in Agr.
- Murphy, Helen Elizabeth, B.S. 1917, Phoenix
Limnology, Parasitology (Needham, Riley) A.M.
- Myers, William Irving, B.S. 1914, Ithaca
Farm Management, Animal Husbandry, Political Science (Thompson, Livermore, Wing, Willcox) Ph.D.
- Nakahara, Waro, B.S. (Tokyo Agr.) 1915; A.M. (Cornell) 1917, Tokyo, Japan
Insect Morphology, Systematic Entomology, Histology and Embryology (Riley, Needham, Kingsbury) Ph.D.

- Nanz, Ralph Simpson, B.S. 1912, Ithaca
 Plant Physiology, Botany (Taxonomy), Physical Chemistry (Knudson, Curtis, Wiegand, Briggs) Ph.D.
- Napier, Frances, B.A. (Adelphi) 1906, Montclair, N. J.
 Literary Criticism, English Literature (Cooper, Broughton) A.M.
- Newman, George Burgess, A.B. (Univ. of Maine) 1914; A.M. 1915, Fryeburg, Me.
 Economic Entomology, Insect Morphology, Limnology (Matheson, Riley, Needham) Ph.D.
- Noble, Clarence Vernon, B.S. 1916, Ithaca
 Farm Management, Farm Crops, Animal Husbandry (Livermore, Warren, Montgomery, Savage) Ph.D.
- Ohlendorf, Walter, B.S. (Texas A. & M.) 1913, Lockhart, Tex.
 Economic Entomology, Organic Chemistry (Herrick, Mattheson, Orndorff) Ph.D.
- †Palmer, Ephraim Laurence, A.B. 1911; A.M. 1913; Ph.D. 1917, Cortland
 [Adviser: W. W. Rowlee.]
- †Parks, Charles John, Ph.B. (Alfred) 1907, Ithaca
 [Adviser: G. A. Works. Agr. 17 hrs.]
- ††Porter, Joseph Pullman, B.S. 1917, New Rochelle
 Landscape Design, Plant Materials (Davis, Curtis) M.L.D.
- Righter, Jessie Harris, B.A. (Adelphi) 1904, Brooklyn
 American History, English History (Bretz, Lunt) A.M.
- Rubinger, Joseph, B.S. 1917, New York City
 Botany, Plant Physiology (Wiegand, Knudson) A.M.
- Rusack, Gretchen, A.B. (Hunter College) 1914, Catskill
 German Literature, German Philology (Davidsen, Boesche) A.M.
- Schuchart, Mary A., A.B. (Kansas) 1915, Waterville, Kan.
 Biology, Ornithology (Needham, Allan) A.M.
- Sie, William Kia-shen, B.A. (University of Nanking) 1914, Nanking, China
 Plant Pathology, Farm Crops, Histology (Whetzel, Montgomery, Eames) Ph.D.
- Smith, Benjamin Harrison, A.B. (Wabash) 1917, New Richmond, Ind.
 Plant Pathology, Histology, Plant Physiology (Whetzel, Eames, Knudson) Ph.D.
- Smith, Raymond Stratton, B.S. (Pomona) 1907; B.S. (University of Illinois) 1913; M.S. (Penn. State) 1916, State College, Pa.
 Soils, Geology, Plant Physiology (Bizzell, von Engeln, Knudson) Ph.D.
- Stewart, George, B.S. (Utah Agricultural) 1913, Logan, Utah
 Farm Crops, Plant Breeding (Montgomery, Love) M.S. in Agr.
- Strahan, James Lewis, B.S. 1912; M.S. in Agr. 1913, Wappingers Falls
 Rural Engineering, Architecture, Mechanical Engineering (Riley, Young, Sawdon) Ph.D.
- †Taylor, James Harley, A.B. (Trinity) 1916, Harley, N. C.
 [Adviser: G. A. Works. Agr. 18 hrs.]
- Triester, Bertha, A.B. (Western Reserve) 1910, Cleveland, O.
 German, Spanish (Keniston, Boesche) A.M.
- Turner, Thomas Wyatt, A.B. (Howard Univ.) 1901, Washington, D. C.
 Plant Physiology, Plant Breeding, Plant Pathology (Knudson, Emerson, Whetzel) Ph.D.
- Turpin, Harold Worthington, B.S. (Iowa State) 1916, Ithaca
 Soil Technology, Mineralogy and Petrography, Physical Chemistry (Bizzell, van der Meulen, Briggs) Ph.D.
- Van Dyck, Miriam Hasbrouck, A.B. (Vassar) 1912, Newark, N. J.
 German Literature, German Philology (Davidsen, Boesche) A.M.
- Weitman, Elizabeth, A.B. (Hunter College) 1913, Brooklyn
 German Literature, German Language (Davidsen, Boesche) A.M.
- Whaley, Nell, A.B. (Transylvania) 1906, Paris, Ky.
 Latin, English Language (Durham, Monroe) A.M.
- Wiggans, Roy Glen, B.S. (Missouri) 1914; M.S. (Cornell) 1915, Columbia, Mo.
 Farm Crops, Plant Breeding, Plant Physiology (Montgomery, Knudson, Love) Ph.D.
- Willis, Kathleen Marie, A.B. 1912, Mansfield, O.
 English Prose, German Prose (Sampson, Faust) A.M.
- Wong, Chun, B.S. 1916, Canton, China
 Floriculture, Pomology (Lumsden, Heinriche) M.S. in Agr.
- Yerkes, M. Ruth, B.A. (William Smith) 1915, Romulus
 Literary Criticism, English Literature (Cooper, Broughton) A.M.
- Yih, Charles Robert, A.B. (Soochow University) 1914; B.S. (same) 1915, Soochow, China
 Insect Morphology, Histology and Embryology, Systematic Entomology (Riley, Kingsbury, Johannsen) Ph.D.
- †Yuasa, Hachiro, B.S. (Kansas State Agr.) 1915; M.S. (University of Illinois) 1917, Tokyo, Japan
 [Adviser: J. G. Needham. Agr.]

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ALBERT BERNHARDT FAUST, A.B., Ph.D., Professor of German.
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ARTHUR WESLEY BROWNE, B.S., M.S., Ph.D., Professor of Inorganic and Analytical Chemistry.
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JULIAN PLEASANT BRETZ, A.B., Ph.D., Professor of American History.
JAMES GEORGE NEEDHAM, B.S., M.S., Ph.D., Professor of Entomology and Limnology.
WILLIAM ALBERT RILEY, A.B., Ph.D., Professor of Insect Morphology and Parsitology.
GLENN WASHINGTON HERRICK, B.S.A., Professor of Economic Entomology.
GEORGE NIEMAN LAUMAN, B.S.A., Professor of Rural Economy.
SAMUEL PETER ORTH, A.B., Ph.D., Professor of Political Science.
ALLYN ABBOTT YOUNG, Ph.B., Ph.D., Professor of Economics and Finance.
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LANE COOPER, A.B., A.M., Ph.D., Professor of the English Language and Literature.
ALBERT WILLIAM BOESCHE, A.B., Ph.D., Professor of German.
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CARL BECKER, B. Litt., Professor of Modern European History.

- FRANK ARTHUR BARTON, M.E., Lieutenant-Colonel, U. S. A., Professor of Military Science and Tactics.
- FREDERICK CLARKE PRESCOTT, A.B., Assistant Professor of English.
- CLARK SUTHERLAND NORTHUP, A.B., Ph.D., Assistant Professor of English.
- ERNEST BLAKER, B.S., Ph.D., Assistant Professor of Physics. (Absent on leave.)
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- HUGH DANIEL REED, B.S., Ph.D., Assistant Professor of Neurology and Vertebrate Zoology.
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- EUGENE PLUMB ANDREWS, A.B., Assistant Professor of Archæology.
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- ALBERT HAZEN WRIGHT, A.B., A.M., Ph.D., Assistant Professor of Zoology.
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ELLEN BRAINARD CANFIELD, Instructor in Physical Training.
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RALPH EMERSON BITNER, B.S., M.S., Instructor in Physics.
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MILDRED SEVERANCE, A.B., Instructor in Physics.
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ROBERT ARGYLL CAMPBELL, A.B., Lecturer in Economics.
EDITH H. MATZKE, M.D., Lecturer on Hygiene.
HELEN BREWSTER OWENS, A.B., A.M., Ph.D., Lecturer in Mathematics.
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JOSEPH PETER KOLLER, B.Chem., Assistant in Chemistry.
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FORD HAPGOOD MCBERTY, Assistant in Physics.
JOHN W. HAYES, B.S. in Chem., Assistant in Chemistry.
HERMAN J. HILMER, Ph.D., Assistant in Economics.
JAMES MEAD HYATT, Assistant in Physics.
FRANK ALEXANDER GRIFFIN, Assistant in Chemistry.
MARY JONES FISHER, A.B., A.M., Assistant in Zoology.
EDWIN DANIEL FRIDERICI, Assistant in Chemistry.
FRANCIS KILIAN DUCASSE, Assistant in Chemistry.
RALPH LEWIS EMMONS, A.B., Reading Assistant in Economics.
FRANK VAN DUZER FIELDS, Assistant in Physics.
LEE HINCHMAN CLARK, Assistant in Chemistry.
MYRON WESLEY COLONY, Assistant in Chemistry.
RALPH THOMAS KLINE CORNWELL, Assistant in Chemistry.
M. ARLOUINE CHESEBROUGH, Assistant in Zoology.
GEORGE HENSHAW CHILDS, B.A., M.A., Assistant in Zoology.
JOHN CHRISTENSEN, Theme Reader in English.
CHARLES HENRY BRANDES, Assistant in Chemistry.
CHARLES DWIGHT BOIES, Reading Assistant in Economics.
NORMAN CLARK BABCOCK, Assistant in Chemistry.
FRANK HOWELL POLLARD, B.Chem., Assistant in Chemistry.
RUTH RAND, A.B., A.M., Assistant in Histology and Embryology.
GEORGE WILLIAM MACDONALD ROBERTSON, Theme Reader in English.
DAVID SCHULTZ, Assistant in Chemistry.
ARTHUR JOHN SHERBURNE, Assistant in Chemistry.
JOSEPH TALBOT SHERIDAN, A.B., Assistant in Anatomy.
PAUL METCALF STOUFFER, Assistant in Chemistry.
HERBERT ARTHUR STURGES, A.B., Reading Assistant in Statistics.
EDWIN HEWES THOMAS, Assistant in Chemistry.
WILLIAM PERRINE VAN WAGENEN, Student Assistant in Histology and Embryology.
ANNA LAURA WHITE, Assistant in Physics.
JAMES ARTHUR KENNEDY, A.B., Assistant in Chemistry.
CLYDE CARNEY HAMILTON, B.S., M.S., Assistant in Zoology.
JOHN THOMAS CHAPPELL, B.S., Assistant in Chemistry.
SAMUEL BERGSTEIN, Assistant in Zoology.
AMY GRACE MEKEEL, A.B., Assistant in Zoology.
CYRUS MARVIN CHRISTIAN, Assistant in Zoology.

COLLEGE OF ARTS AND SCIENCES

For admission to the College of Arts and Sciences, see page 39; for tuition in the College of Arts and Sciences, see page 46.

Two curricula are offered in the College of Arts and Sciences, one leading to the degree of Bachelor of Arts, the other leading to the degree of Bachelor of Chemistry.

THE DEGREE OF BACHELOR OF ARTS

1. Requirements for Graduation.

- a. Residence for eight terms as defined and provided for in paragraphs 2-4.
- b. Credit for one hundred and twenty hours, of which at least ninety hours must be for courses given in the College of Arts and Sciences.
- c. A grade of at least C in at least one-half of the work of the student. A, B, C, D are passing grades; E represents a condition; F a failure.
- d. Election of courses must be in accordance with the provisions of paragraphs 8-17 (Choice of Studies).
- e. Completion of the work in Military Drill or in Physical Training prescribed by the University Faculty.

2. Credit for Terms of Residence.

- a. **During the Academic Year.** To secure credit for a term of residence, a student must complete during that term at least twelve hours of work.
 - (i) If, as a result of ill health or of other causes beyond his control, a student fails to pass twelve hours in a term, the term's residence may be completed either by attendance at a summer session or by examination or by both as the Committee on Academic Records may determine, but no credit for courses elected in any other term may be used to complete the necessary twelve hours.
 - (ii) When the failure to pass twelve hours is due to other causes than those just specified, all credit for the term in residence and in hours is cancelled and the student may resume his work in the College only under such conditions and at such time as the Faculty may designate. A freshman, however, who, at the end of his first term, has failed to pass twelve hours of work, but who nevertheless is permitted to continue in the College, may be allowed until the beginning of his fourth term to make up deficiencies in courses for which he was registered during the first term whenever such deficiencies may, under the rules of the College, be made up.
- b. **By Examination at Admission.** In case a student has gained twelve hours of college credit by passing at admission examinations set for that purpose, he will be considered as having completed one term of residence. If the college credit gained at entrance amounts to six hours, he may complete a term of residence by securing credit for at least six hours in a summer session of the University.
- c. **Summer Sessions.** A student who has satisfied the entrance requirements of the College and has afterwards completed in two or more summer sessions of the University at least twelve hours of work in courses selected with the approval of the Dean, will be

regarded as having thus fulfilled a term of residence. Credit for a maximum of eight hours and (except with the permission of the Committee on Academic Records) a minimum of five hours may be secured in any one summer session. Under no circumstances will work done in summer sessions be accepted as the equivalent of more than two terms. Courses pursued in summer sessions of other universities belonging to the Association of American Universities by a student regularly registered in this College may be credited toward the degree, but permission to take such courses must be secured in advance from the Dean of this College.

3. **Residence During the Last Two Terms.** The degree will not be conferred upon any student unless he has been in residence at Cornell University during the last two of the required eight terms.

4. **Admission to Advanced Standing.** A student admitted to the College of Arts and Sciences from another college of Cornell University or from any other institution of collegiate rank will receive credit toward the degree of Bachelor of Arts for the number of terms and of hours to which his records may, in the judgment of the Committee on Academic Records, entitle him. In order, however, to obtain the degree of Bachelor of Arts he must, as a candidate for that degree, have been in residence at least two terms in the College of Arts and Sciences and in that college only.

5. **Registration in Two Colleges of the University.** A student who has completed in the College of Arts and Sciences at least six terms of residence (no one of them under the provisions of paragraph 2b) and has received credit for at least ninety hours of work in the College may, with the permission of the Faculties concerned, be registered both in the College of Arts and Sciences and also in any other college of Cornell University.

6. **Registration in the College and in the Graduate School.** With the approval of a committee consisting of the Dean and two other members of the Faculty (to be appointed by the Dean), a student who has satisfied all the requirements of graduation except in respect of residence, may be permitted to register both in the College of Arts and Sciences and in the Graduate School.

7. **Removal of Conditions.** A student who has received a mark of E (a condition) in any course may, with the consent of the Dean, be permitted to remove the condition by examination or otherwise as the Department concerned may direct. A condition may not be removed later than registration day of the third succeeding term after it was incurred and not more than one attempt to remove a condition will be allowed.

A student who has received a mark of F (a failure) in any course must register again for the course if he desires to secure credit therefor.

CHOICE OF STUDIES

8. **At Least Twelve Hours of Work.** A student must register each term for at least twelve hours of work. For registration in a course not in the College of Arts and Sciences the permission of the college or of the professor concerned must be secured. (For limitation on range of freshman election see paragraph 16.)

9. **Under-class Advisers.** Each freshman and sophomore must confer with an under-class adviser before handing in his study card to the Dean. The function of the adviser is to consult with the student regarding his choice of studies to confer with him during the term regarding his work, and generally to give him such friendly counsel as he may desire.

10. **Under-class Requirements.** During the freshman and the sophomore year, each student is required to include in the courses for which he registers the following: in English and history, six hours; in one or more languages other than English, six hours; in philosophy, psychology, and mathematics, six hours; and in physics, chemistry, geology, physical geography, and the biological sciences, six

hours. Of these hours the student is required to take at least twelve, and advised to take more, in his freshman year. Each six hours may be entirely in one division (for example, English six hours), or partly in one and partly in another (for example, English three hours and history three hours). College credit gained under paragraph 2b may not be applied in satisfaction of any of these group requirements.

11. Upper-class Groups and Advisers. Each student shall choose at the beginning of his junior year one of the following groups:

- | | |
|--|--|
| 1. Ancient Languages. | 7. Physics. |
| 2. Modern Languages. | 8. Chemistry. |
| 3. English and Public Speaking. | 9. Botany. |
| 4. Philosophy, Psychology, and Education (including Physical Education). | 10. Zoology and Entomology. |
| 5. History and Political Science. | 11. Physiology, Histology, and Embryology. |
| 6. Mathematics and Astronomy. | 12. Geology and Physical Geography. |

With the sanction of his adviser and of the Dean, a student may choose, instead of one of the upper-class groups listed above, a combination of two related groups. In the group selected he must complete during his junior and his senior year at least twenty hours of work. In choosing these twenty hours the student must obtain the advice and approval of some professor or assistant professor within the group. A senior in this College who is registered also in some other college of Cornell University is excused from ten of these twenty hours.

12. Study Cards. On or before the third day of instruction a student registering in the College for the first time must file at the Dean's office his study card with list of courses for the term.

13. Two weeks before the end of each term every student must file at the Dean's office his study card with list of courses for the next term.

14. Changes in List of Courses. With the consent of the Dean, a student may alter his list of courses in the first term during the first six days of instruction, and in the second term during the first day of instruction.

15. Thereafter no student shall have the right to withdraw from any course in which he is registered, unless he shall previously have obtained from the Dean authorization to do so on the ground of ill health or for other reasons beyond the student's control.

16. Courses Open to Freshmen without Special Permission.

The following courses in the College of Arts and Sciences are open to freshmen, except that

1. a student may not register for any of these courses for which he has not satisfied the prerequisites if any are specified (see announcement under each course),
2. a student may not register for any of these courses for which he has presented an acceptable equivalent at entrance.

Bibliography 1, 2

Biology 1

Botany 1, 2, 3, 4

Chemistry 1, 6, 7, 85

English 1, 3

Entomology 4, 5, 10

French 1, 3, 4, 4a, 5, 6

Geology 1, 2, 11, 21

German 1, 2, 3, 4, 4a, 5, 5a, 7, 8, and (by special permission) 10

Greek 1, 2

History 1, 2, 31, 32.

Italian 1, 2

Latin A, B, 1, 2

Mathematics 1, 2, 2E, 3, 5, 6, 7, 8, 15

Music 1

Physics 2, 3, 4a, 4b, 7, 10

Physiology 3, 6

Spanish 1, 2, 3

Zoology 1, 5, 6, 12

17. Theses. Any senior candidate for the degree of Bachelor of Arts may, with the permission of the Dean, arrange with the Department in which he is taking his principal work to write a thesis which, if accepted, shall entitle him to not more than three hours of credit a term.

THE DEGREE OF BACHELOR OF CHEMISTRY

The requirements for the degree of Bachelor of Chemistry are residence for eight terms and the completion of the following curriculum in addition to the work prescribed by the University in Military Drill or in Physical Training.

Students who have not presented three units of German and two units of French upon entering the course in chemistry, will be required to make up the shortages in these languages before the beginning of the senior year

First Year		No. of Course	First Term	Second Term
Introductory Inorganic Chemistry.....	Chemistry	I	6	—
Qualitative Analysis	Chemistry	7	6 or 0	0 or 6
Analytical Geometry, Differential Calculus, Integral Calculus.....	Mathematics	7	5	5
Introductory Experimental Physics.....	Physics	2	—	5
Drawing.....	Sibley College	D3	3	—
English	English	I	4	4

Second Year

Quantitative Analysis	Chemistry	12	0 or 6	6 or 0
Organic Chemistry.....	Chemistry	30	6	6
Gas Analysis.....	Chemistry	19 & 20	4 or 0	0 or 4
Introductory Physical Experiments.....	Physics	10	2	—
Physical Experiments	Physics	14	—	2
Crystallography	Geology	12	0 or 3	3 or 0
Opticochemical Methods	Chemistry	24	—	3
Elective			—	3

Third Year

Introductory Physical Chemistry.....	Chemistry	50	3	3
Physical Chemistry Laboratory.....	Chemistry	51	3	3
Chemical Microscopy.....	Chemistry	65	0 or 2	2 or 0
Quantitative Analysis, Lectures.....	Chemistry	15	—	2
Advanced Quantitative Analysis.....	Chemistry	14	2	2
General Physics.....	Physics	9c	2	—
Physical Experiments.....	Physics	14	2	—
Mechanics.....	Sibley College	M5	5	—
Mechanical Laboratory.....	Sibley College	X12	—	4
Elective				3

Students that wish to register in the junior year for a greater number of elective hours than the schedule demands may, with the approval of the Department, be permitted to defer taking some of the required courses of the junior year.

Fourth Year

Electrical Engineering Laboratory.....	Sibley College	E12	4	—
Seminary	Chemistry	95	—	1
Research	Chemistry	96 (at least)	4	4
Electives	at least		5	5

In choosing his elective subjects in the senior year the student is advised to select as his special field some one of the following seven divisions of chemistry: inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, chemical microscopy, sanitary chemistry, agricultural chemistry. While the greater part of the elective work should lie in the field thus chosen, the remainder may comprise courses in any division of chemistry, or such other courses as may be approved by the Department of Chemistry.

The provisions of paragraphs 2b, 2c, 3, 4, 12, 13, 14, and 15 relating to the degree of Bachelor of Arts apply in general to candidates for the degree of Bachelor of Chemistry. A candidate for the latter degree may register for nineteen hours a term. To register for more than nineteen hours in any term he must secure the approval of the Department of Chemistry.

COURSES OF INSTRUCTION

SEMITIC LANGUAGES AND LITERATURES

1. **Hebrew.** Throughout the year, credit three hours a term. Professor SCHMIDT.
- 2a. **Arabic.** Throughout the year, credit two hours a term. Professor SCHMIDT.
- 2b. **Advanced Arabic.** Throughout the year, credit two hours a term. Prerequisite course 2a. Professor SCHMIDT.
3. **Ethiopic.** Throughout the year, credit two hours a term. Prerequisite courses 1, 2a. Professor SCHMIDT.
- 4a. **Assyrian.** Throughout the year, credit two hours a term. Prerequisite courses 1, 2a. Professor SCHMIDT.
- 4b. **Aramaic.** Throughout the year, credit two hours a term. Prerequisite course 1. Professor SCHMIDT.
- 5a. **Egyptian.** Throughout the year, credit two hours a term. Prerequisite courses 1, 2a. Professor SCHMIDT.
- 5b. **Coptic.** Throughout the year, credit two hours a term. Prerequisite course 5a. Professor SCHMIDT.
6. **Biblical Literature.** Throughout the year, credit two hours a term. Professor SCHMIDT.
7. **Semitic Seminary.** Throughout the year, credit two hours a term. Prerequisite courses 1, 4b. Professor SCHMIDT.
8. **Comparative Semitic Philology.** Throughout the year, credit one hour a term. Prerequisite courses 1, 2, 4b. Professor SCHMIDT.
- 9a. **Oriental History.** Throughout the year, credit two hours a term. Professor SCHMIDT. Introduction to the history of Asia.
- [9b. **Oriental History.** Throughout the year, credit two hours a term. Professor SCHMIDT. Introduction to the history of Africa.] Not given in 1917-18.

GREEK

1. **Elementary Greek.** Throughout the year, credit six hours a term. This course however is continuous throughout the year, and no credit will be allowed for the first term alone. Assistant Professor JONES.
2. **Plato, Selections; Homer's Odyssey.** Throughout the year, credit three hours a term. Professor BRISTOL.
3. **Euripides, Sophocles.** First term, credit three hours. Assistant Professor JONES.
4. **Greek Composition.** Throughout the year, credit one hour a term. Prerequisite course 2 or the equivalent. Assistant Professor JONES.
5. **New Testament Greek.** Throughout the year, credit two hours a term. Dr. WHITE.
7. **Myths of the Epic Cycle.** Second term, credit two hours. Assistant Professor JONES.
9. **Dramatic Poetry.** Second term, credit two hours. Assistant Professor JONES.
10. **Lyric Poetry.** First term, credit two hours. Professor BRISTOL.
- [11. **Aristophanes.** Second term, credit two hours. Assistant Professor JONES.] Not given in 1917-18.
12. **The Republic of Plato.** Throughout the year, credit three hours a term. Professor HAMMOND. Intended for students of Greek literature and of Greek philosophy.
- [15. **Thucydides.** First term, credit two hours. Professor BRISTOL.] Not given in 1917-18.
20. **Greek Seminary.** Throughout the year, credit two hours a term. Professor BRISTOL.
- [21. **Introduction to the Study of Language.** First term, credit three hours. Professor BRISTOL.] Not given in 1917-18.
- [22. **Linguistic Study of the Germania of Tacitus.** Second term, credit two hours. Professor BRISTOL.] Not given in 1917-18.
25. **Comparative Grammar of Greek, Latin, and Germanic.** First term, credit three hours. Professor BRISTOL.

GREEK ART AND ANTIQUITIES

Courses 1, 2, 3, 4, and 4a in this department do not require any knowledge of Greek or of Latin. Courses 5 and 6 presuppose facility in reading Greek. Course 7 is primarily for those expecting to study in Athens.

A. Greek Art. November to March inclusive. Assistant Professor ANDREWS.

Course of popular illustrated lectures on Greek sculpture, Greek antiquities, and Greek topography.

1. **History of Greek Sculpture.** Repeated in second term, credit three hours. Assistant Professor ANDREWS.

Not open to students who have had course 2.

2. **History of Greek Sculpture.** Throughout the year, credit two hours a term. Assistant Professor ANDREWS.

New registrations will not be accepted for the second term.

3. **Greek Antiquities.** Repeated in second term, credit three hours. Assistant Professor ANDREWS. Not open to students who have had course 1.

4. **Greek Numismatics.** First term, credit two hours. Assistant Professor ANDREWS. Preferably to follow course 3.

4a. **Greek Architecture.** Second term, credit two hours. Assistant Professor ANDREWS. Preferably to follow course 3.

5. **Pausanias.** Credit two hours. Assistant Professor ANDREWS.

6. **Greek Epigraphy.** Credit two hours. Assistant Professor ANDREWS.

7. **Modern Greek.** Credit two hours. Assistant Professor ANDREWS.

LATIN

A. **Elementary Latin; Cæsar.** Professor ELMER. Credit five hours a term.

B. **Cicero, Selected Orations; Virgil, Aeneid, Books I-IV.** Throughout the year, credit three hours a term. Prerequisite course A or entrance credit for two units of Latin (first year and second year Latin.) Professor ELMER.

1. **Cicero, De Amicitia; De Senectute; Horace, Odes and Epodes; Latin Writings.** Throughout the year, credit three hours a term. Professors BENNETT and DURHAM.

2. **Sight Translation: Gellius, Selections; New Testament, Phædrus.** Throughout the year, credit one hour a term. Professor ELMER.

Courses 2 and 3 are given in alternate years.

[3. **Sight Translation: Selections from Petronius, Cato, Publilius Syrus, and Early Christian Hymns; Martial.]** Not given in 1917-18.

8. **Terence, Phormio and Adelphi; Catullus; Horace, Satires and Epistles; Seneca, Letters; Tacitus, Agricola.** Throughout the year, credit three hours a term. Prerequisite course 1. Professor DURHAM.

9. **Sight Translation for Sophomores.** First term, credit one hour. Prerequisite course 1. Professor DURHAM.

10. **Classic Myths in English Literature.** Prerequisite preparatory Latin. Second term, credit two hours. Professor DURHAM.

[11. **Ovid, Metamorphoses; Selections from Cicero's Letters.** Throughout the year, credit two hours a term. Prerequisite course 1 or the equivalent.] Not given in 1917-18.

12. **Selections from the last six books of Virgil's Aeneid; Cicero, De Officiis.** Throughout the year, credit two hours a term. Prerequisite course 1 or the equivalent. Professor ELMER.

Courses 11 and 12 are given in alternate years.

[16. **Selections from the Republican Literature: Plautus, the Captives and Mostellaria; Lucretius; Lectures on the History of Roman Literature.** Throughout the year, credit three hours a term. Prerequisite course 8, 11, or 12. Professor BENNETT.] Not given in 1917-18.

17. **Literature and History of the Early Empire: Suetonius, Lives of the Caesars; Pliny's Letters; Tacitus's Annals.** Throughout the year, credit three hours a term. Prerequisite course 8, 11, or 12. Professor BENNETT.

Courses 16 and 17 are given in alternate years.

18. **Lyric Poetry, Catullus.** First term, credit two hours. Open by special permission to students who are taking course 17. Professor DURHAM.

21. **Intermediate Course in Latin Writing.** Credit one hour a term. Prerequisite course 1. Professor ELMER. This course is continuous throughout the year, and no credit will be allowed for the first term alone.

[26. **Teachers' Training Course.** Throughout the year, credit two hours a term. Open, upon personal application to the professor, to students who have had course 8, 11, or 12, and have taken or are taking course 16 or 17. Professor BENNETT.] Not given in 1917-18.

27. **Roman Life and Art.** Throughout the year, credit two hours a term. Professor BENNETT. W F, 12, Goldwin Smith 120.

[34. **Cicero, in Verrem, Fourth Oration of the Actio Secunda.** Throughout the year, credit one hour a term. Prerequisite course 8, 11, or 12, or the equivalent. Professor ELMER.] Not given in 1917-18.

[35. **Cicero's Philippics.** Throughout the year, credit one hour a term. Prerequisite course 8, 11, or 12, or the equivalent. Professor ELMER.] Not given in 1917-18.

45. **Latin Writing, Advanced Course.** Throughout the year, Professor ELMER. For graduates. Undergraduates who have taken course 21 may also be admitted to this course.

47. **Vulgar Latin, Elementary Course.** Throughout the year, credit two hours a term. Professor DURHAM.

50. **Latin Epigraphy.** Throughout the year, credit two hours a term. Professor DURHAM. Open to graduates and to qualified undergraduates. A reading knowledge of French and German is required.

GERMAN

1. **Course for Beginners: Oral Training, Grammar, Composition, Translation.** Repeated in second term, credit six hours. First term, Professor POPE, and Dr. ZINNECKER.

This course is equivalent to first year and second year German of the entrance requirements (credit two units). It may be elected for three hours credit by students who have entrance credit for only one unit of German (first year German).

2. **Oral Training, Grammar, Composition, Translation.** First term, credit three hours. Prerequisite first year German of the entrance requirements.

3. **Oral Training, Grammar, Composition, Translation.** Repeated in second term, credit five hours. Prerequisite course 1, or course 2, or entrance credit for two units of German (first year German and second year German.) Dr. ZINNECKER and Dr. ANDREWS.

4. **Elementary German Composition and Conversation.** Throughout the year, credit three hours a term. Open to those who are taking or have taken course 3. Professor POPE. Dr. ZINNECKER and Dr. ANDREWS.

4a. **Elementary German Composition and Conversation.** Second term, credit five hours. Mr. ———.

5. **Intermediate German Course.** Throughout the year, credit three hours a term. Prerequisite course 3, or the equivalent. Professors FAUST and POPE, and Dr. ANDREWS.

5a. **Intermediate German Course.** Second term, credit five hours. Prerequisite course 3 or the equivalent. Dr. ANDREWS.

7. **Intermediate German Course.** Throughout the year, credit five hours a term. Prerequisite course 3, or the equivalent. Professor BOESCHE and Assistant Professor DAVIDSEN.

8. **Scientific German.** Second term, credit two hours. Prerequisite courses 1-3, or three years of German in high school. Professor BOESCHE.

10. **Advanced German Composition and Conversation.** Throughout the year, credit three hours a term. Prerequisite courses 1-5, or the equivalent. Professor POPE and Assistant Professor DAVIDSEN.

11. **Schiller's Life and Works.** Throughout the year, credit three hours a term. Prerequisite courses 1-5. Professor BOESCHE.

12. **Goethe's Life and Works.** First term, credit three hours. Primarily for juniors and seniors. Prerequisite courses 1-5, or the equivalent. Professor FAUST.

13. **Goethe's Faust**, part I and selected portions of part II. Second term, credit three hours. Primarily for juniors and seniors. Prerequisite courses 1-5, or the equivalent. Professor FAUST.

[14. **History of German Literature.** Throughout the year, credit three hours a term. Prerequisite courses 1-5, or the equivalent. Professor FAUST.] Not given in 1917-18.

15. **Contemporary German Literature.** Throughout the year, credit three hours a term. Prerequisite courses 1-5, or the equivalent. Professor FAUST.

16. **The German Drama of the Nineteenth Century.** Throughout the year, credit three hours a term. Prerequisite courses 1-5 and 10, or the equivalent. Assistant Professor DAVIDSEN. Recitations, lectures in German, and collateral reading.

[17. **The Literature of the Reformation.** First term, credit three hours. Prerequisite courses 1-5 and 10, or the equivalent. Assistant Professor DAVIDSEN.] Not given in 1917-18.

[18. **Lessing's Life and Works.** Second term, credit three hours. Prerequisite courses 1-5 and 10, or the equivalent. Assistant Professor DAVIDSEN.] Not given in 1917-18.

20. **History of the German Novel.** Second term, credit three hours. Prerequisite courses 1-5. Dr. ZINNECKER.

[24. **Lyric and Ballad Poetry.** Second term, credit three hours. Prerequisite courses 1-5. Professor POPE.] Not given in 1917-18.

[25. **Wagner's Life and Works.** Second term, credit three hours. Prerequisite courses 1-5, otherwise only by special permission. Professor POPE.] Not given in 1917-18.

[30. **The History of the German Element in the United States.** Professor FAUST.] Not given in 1917-18.

33. **Elementary Phonetics and its Application to the Study of Modern Languages.** First term, credit two hours. Assistant Professor DAVIDSEN.

33a. **Advanced Phonetics.** Second term, credit two hours. Prerequisite course 33, or the equivalent. Mr. ———.

[34. **Principles of Word Formation.** First term, credit two hours. Assistant Professor DAVIDSEN.] Not given in 1917-18.

35. **History of the German Language.** First term, credit three hours. Mr. ———.

37. **Elementary Middle High German.** First term, credit three hours. Prerequisite courses 1-5, 10, and at least six hours of advanced work in German literature. Professor POPE.

[38. **Modern Scandinavian.** Throughout the year, credit three hours a term. Dr. ANDREWS.] Not given in 1917-18.

39. **Teachers' Course in German Composition.** Throughout the year, credit two hours a term. Admission by permission only. Professor BOESCHE.

40. **Teachers' Course in Methods.** Second term, credit two hours. Prerequisite courses 1-5, 10, and eighteen hours of advanced work in German literature or philology. Professor FAUST, assisted by his colleagues of the German Department.

42. **Gothic.** First term, credit three hours. Professor BOESCHE. Primarily for graduates.

[43. **Old High German.** First term, credit three hours. Prerequisite course 37. Professor BOESCHE. Primarily for graduates.] Not given in 1917-18.

44. **Old Icelandic.** Throughout the year, credit three hours a term. Dr. ANDREWS. Primarily for graduates.
- [45. **The Icelandic Sagas.** Credit one hour. Mr. HERMANSSON.] Not given in 1917-18.
46. **Old Norse Mythology.** First term, credit one hour. Mr. HERMANSSON.
48. **Principles of Germanic Philology.** Second term, credit two hours. Prerequisite course 42. Dr. ANDREWS.
49. **Seminary in German Literature.** First term, credit two hours. Professor FAUST. For graduates only.
50. **Seminary in German Literature.** Second term, credit two hours. Assistant Professor DAVIDSEN. Primarily for graduates.
51. **Seminary in German Philology.** Second term, credit two hours. Professor POPE. Primarily for graduates.
- [52. **Seminary in German Philology.** Second term, credit two hours. Professor BOESCHE. For graduates only.] Not given in 1917-18.

ROMANCE LANGUAGES

FRENCH

Students intending to teach French should take the following courses as a minimum requirement for their purpose; 4, 5, 6, 14, 23, 55, and at least three other courses in French literature.

1. **Elementary Course.** Repeated in second term, credit six hours. Professor MASON and Mr. BUTTERY.

This course is equivalent to first year French and second year French of the entrance requirements (credit 2 units). It may be elected for three hours credit by students who have entrance credit for only one unit of French (first year French).

3. **Grammar, Composition, Translation.** Repeated in second term, credit five hours. Prerequisite course 1, or entrance credit for two units of French (first year French and second year French).

4. **Advanced Translation.** Repeated in second term, credit three hours. Prerequisite course 3, or third year French of the entrance requirements. Professors MASON and HAMILTON. Second term: Assistant Professor PUMPELLY, and Mr. ———.

Designed primarily for freshmen who have entrance credit for three units of French. It is prerequisite for all the following courses in French, except 5, which may be profitably taken in connection with it.

- 4a. **Advanced Translation.** Second term, credit three hours. Prerequisite course 4. Professor HAMILTON.

5. **Elementary Composition.** Throughout the year, credit three hours a term. Prerequisite course 3, or third year French of the entrance requirements. Assistant Professor PUMPELLY.

This course should be taken early by all students who are specializing in French, if possible in connection with course 4.

6. **History of French Literature.** Throughout the year, credit three hours a term. Prerequisite course 4. Professor MASON.

7. **Literature of the Seventeenth Century.** Throughout the year, three hours a term. Prerequisite course 6.

8. **Literature of the Eighteenth Century.** Throughout the year, credit three hours a term. Prerequisite course 6. Assistant Professor GUERLAC.

- [9. **Literature of the Nineteenth Century.** Throughout the year, credit three hours a term. Prerequisite course 6. Professor MASON.] Not given in 1917-18.

10. **Contemporary French Literature and Thought.** Second term, credit three hours. Prerequisite course 6. Professor MASON.

14. **Advanced Composition.** Throughout the year, credit three hours a term. Prerequisite courses 4, 5. Assistant Professor PUMPELLY.

21. **Prose of the Sixteenth Century.** Second term, credit three hours. Prerequisite course 6. Professor MASON.

- [22. **Poetry of the Sixteenth Century.** Second term, credit three hours. Prerequisite course 6. Professor MASON.] Not given in 1917-18.

23. **French Philology.** Throughout the year, credit three hours a term. Prerequisite entrance Latin. Assistant Professor PUMPELLY.

- [24. **Medieval Literature.** Second term, credit two hours. Prerequisite course 6.] Not given in 1917-18.

26. **Old French Texts.** Throughout the year, credit two hours a term. Prerequisite course 23.

- [27. **Modern French Seminary.** Throughout the year, credit two hours a term. Professor MASON.] Not given in 1917-18.

ITALIAN

1. **Elementary Course.** Throughout the year, credit three hours a term. Professor HAMILTON.

This course may not be taken in the same year as Spanish 1.

2. **Italian Poetry: Dante, Leopardi, Carducci.** Throughout the year, credit three hours a term. Prerequisite course 1, or second year Italian of the entrance requirements. Professor HAMILTON.

3. **Petrarch and the Renaissance.** Throughout the year, credit two hours a term. Prerequisite course 2. Professor HAMILTON. Primarily for graduates.

[5. **Old Italian.** Throughout the year, credit two hours a term. Professor HAMILTON.] Not given in 1917-18.

SPANISH

1. **Elementary Course.** Repeated in second term, credit six hours.

2S. **Elementary Course.** For students in Engineering and Agriculture. Throughout the year, credit three hours a term.

3. **Advanced Course.** Repeated in second term, credit five hours. Prerequisite course 1 or second year entrance Spanish.

5. **Elementary Composition and Conversation.** Throughout the year, credit three hours a term. Prerequisite course 3 or third year entrance Spanish.

5a. **Elementary Composition and Conversation.** Second term, credit five hours. This course is equivalent to course 5. It is intended for students who take course 3 in the first term.

7. **Advanced Composition and Conversation.** Throughout the year, credit three hours a term. Prerequisite course 5 or 5a. (formerly Romance Languages 43).

11. **Literature of the Nineteenth Century.** Throughout the year, credit three hours a term. Prerequisite course 3 (formerly Romance Languages 41). Assistant Professor KENISTON.

12. **History of Spanish America.** Second term, credit three hours. Prerequisite course 3 (formerly Romance Languages 41). Mr. STURGIS.

[14. **History of Spanish Literature.** Throughout the year, credit three hours a term. Prerequisite course 11.] Not given in 1917-18.

Courses 14 and 16 are usually given in alternate years.

16. **Literature of the Golden Age.** Throughout the year, credit three hours a term. Prerequisite course 11 (formerly Romance Languages 42). Assistant Professor KENISTON.

[21. **Old Spanish.** Throughout the year, credit two hours a term. Primarily for graduates.] Not given in 1917-18.

23. **Seminary.** Throughout the year, credit two hours a term. Assistant Professor KENISTON.

ROMANCE PHILOLOGY

53. **Low Latin.** Second term, credit two hours. Professor HAMILTON. Primarily for graduates.

[55. **Romance Phonetics.** Second term, credit three hours. Assistant Professor KENISTON.] Not given in 1917-18.

60. **Old Provencal.** First term, credit two hours. Professor HAMILTON.

ENGLISH

Courses 1 and 3 are for freshmen; courses 20, 22, and 71 are primarily for sophomores. Prerequisites for admission to the remaining courses, for upperclassmen and graduates, are stated in the description of the courses.

1. **Introductory Course.** Throughout the year, credit four hours a term. Students who have not taken the course in the first term may enter in the second term in sections provided for them. Open only to underclassmen who have satisfied the entrance requirement in English. Freshmen who are candidates for the degree of Bachelor of Arts will ordinarily take course 3, and may not enroll in course 1 except with the consent of the head of the department. Assistant Professor BAILEY; Dr. GILBERT; Messrs. BUNDY and BRADLEY.

3. **English Literature.** Throughout the year, credit four hours a term. Students who have not taken the course in the first term may enter in the second term. Open only to freshmen who are not taking course 1. Professors SAMPSON and STRUNK; Assistant Professors BAILEY and BROUGHTON; Mr. SMITH.

5. **Advanced Composition.** Throughout the year, credit three hours a term. Open to upperclassmen who satisfy the instructor that they are proficient in composition. Mr. SMITH.

8. **English Usage and Style.** Throughout the year, credit three hours a term. Prerequisite course 20 or its equivalent. The instructor's permission must be obtained before enrollment in the course. Professor STRUNK.

[9. **Teachers' Course.** Second term, credit one hour. Assistant Professor BAILEY. Open to seniors and graduates who intend to teach English.] Not given in 1917-18.

10. **Play Writing.** Throughout the year, credit two hours a term. Open to seniors and graduates who show some special aptitude for the proposed work. Professor SAMPSON.

11. **Old English.** Throughout the year, credit three hours a term. Prerequisite course 1 or 3. Assistant Professor MONROE.

12. **Middle English.** Throughout the year, credit two hours a term. Prerequisite course 11. Assistant Professor NORTHUP.

20. **Nineteenth Century Prose.** Throughout the year, credit three hours a term. Prerequisite course 1 or 3. Assistant Professors PRESCOTT, NORTHUP, MONROE, and BROUGHTON.

22. **Nineteenth Century Poetry.** Throughout the year, credit three hours a term. Students who have not taken the course in the first term may enter in the second term. Open to sophomores and upperclassmen. Professor SAMPSON and STRUNK.

25. **Old English Readings.** Second term, credit two hours. Prerequisite first term of course 11. Assistant Professor MONROE.

[30. **Chaucer's Canterbury Tales.** Second term, credit three hours. Prerequisite course 11, 20, or 22. Professor STRUNK.] Not given in 1917-18.

32. **History of English Literature.** Throughout the year, credit two hours a term. Open to graduates, and to upperclassmen who have taken two full years of English. Assistant Professor BAILEY.

37. **Shakespeare.** Throughout the year, credit three hours a term. Open to upperclassmen only. Professor STRUNK.

38. **Eighteenth Century Poetry.** Throughout the year, credit two hours a term. Open to upperclassmen only. First term, Assistant Professor PRESCOTT; second term, Assistant Professor MONROE.

39. **Eighteenth Century Prose.** Throughout the year, credit two hours a term. Open to upperclassmen only. Assistant Professor BROUGHTON.

41. **The English Drama to 1642.** Throughout the year, credit three hours a term. Open to upperclassmen only. Assistant Professor ADAMS.

42. **Elizabethan Non-Dramatic Literature.** First term, credit three hours. Open to upperclassmen only. Assistant Professor ADAMS.

43. **Shakespearean Tragedy.** Second term, credit three hours. Open to upperclassmen only. Assistant Professor ADAMS.

47. **The Principles of Poetry and Versification.** First term, credit three hours. Open to upperclassmen only. Assistant Professor PRESCOTT.

[48a. **American Literature.** First term, credit two hours. Open to seniors and graduates. Assistant Professor PRESCOTT.

48b. **American Literature.** Second term credit three hours. Open to seniors and graduates. Assistant Professor PRESCOTT.

[49. **Pastoral Poetry.** Throughout the year, credit two hours a term. Open to upperclassmen only. Assistant Professor BROUGHTON.] Not given in 1917-18.

50. **Milton and Spenser.** Throughout the year, credit two hours a term. Open to upperclassmen and graduates. Dr. GILBERT.

51. **Elizabethan Poetry.** Throughout the year, credit two hours a term. Open to upperclassmen only.

52. **Victorian Literature.** Throughout the year, credit three hours a term. Open to upperclassmen and graduates. Assistant Professor NORTHUP.

56a. **The Arthurian Legends.** First term, credit three hours. Open to upperclassmen and graduates. Assistant Professor NORTHUP.

56b. **Middle English Literature.** Second term, credit three hours. Open to upperclassmen and graduates. Assistant Professor NORTHUP.

59. **Dramatic Structure.** Throughout the year, credit three hours a term. Open to seniors and graduates. Professor SAMPSON.

71. **English Translations of Greek and Latin Classics.** Throughout the year, credit three hours a term. Open to sophomores and upperclassmen. Professor COOPER.

72. **The Principles of Literary Criticism.** Throughout the year, credit two hours a term. Open to seniors and graduates. Professor COOPER.

73. **Dante in English.** Throughout the year, credit two hours a term. Open to seniors and graduates. Professor COOPER.

74. **Early English Literary Types.** Throughout the year, credit three hours a term. Open to upperclassmen and graduates. Professor COOPER.

[75. **Methods and Materials in the Study of English.** Throughout the year, credit two hours a term. Open to graduates. Professor COOPER.] Not given in 1917-18. To be given in 1918-19.

76. **Chaucer.** Throughout the year, credit two hours a term. Open to graduates. Professor COOPER.

80. **Victorian Poetry.** For graduates only. Assistant Professor BAILEY.

81. **The Tudor-Stuart Drama.** For graduates only. Assistant Professor ADAMS.

82. **Pastoral Poetry.** For graduates only. Assistant Professor BROUGHTON.

83. **Layamon's Brut.** For graduates only. Assistant Professor MONROE.

84. **Elizabethan Bibliography.** For graduates only. Assistant Professor ADAMS.

86. **The Epic and the Romance.** For graduates only. Assistant Professor NORTHUP.

87. **The Phonology, Inflections, and Metre of Old English.** For graduates only. Professor STRUNK.

88. **American Literature.** For graduates only. Assistant Professor PRESCOTT.

89. **The Drama.** For graduates only. Throughout the year. Professor SAMPSON.

90. **The Georgian and Victorian Drama.** For graduates only. Assistant Professor NORTHUP.
 91. **The Sonnets of Shakespeare.** For graduates only. Throughout the year. Assistant Professor ADAMS.

PUBLIC SPEAKING

1. **Public Speaking.** Throughout the year, credit three hours a term. Professor WINANS, Assistant Professors MUCHMORE and DRUMMOND, Messrs. OLSON, and FLEMMING.
 1a. **Public Speaking.** Second term, credit three hours. Mr. OLSON.
 This course repeats the work of the first term in course 1.
 6. **Public Speaking for Engineers.** Repeated in second term, credit two hours. Assistant Professor DRUMMOND and Mr. OLSON.
 8. **Voice Training.** Repeated in second term, credit one hour. Assistant Professor MUCHMORE.
 8a. **Voice Training.** Second term, credit one hour. Prerequisite course 8 and consent of instructor. Assistant Professor MUCHMORE.
 10. **Oral Reading.** Throughout the year, credit two hours a term. Assistant Professor MUCHMORE.
 12. **Argument and Debate.** Throughout the year, credit three hours a term. Assistant Professor DRUMMOND.
 15. **Advanced Public Speaking.** Throughout the year, credit three hours a term. Prerequisite five hours in other courses of this department, including three hours of 1 or 1a, and the consent of the instructor. Professor WINANS.
 [16. **Principles of Speech Preparation.** First term, credit two hours. Prerequisite course 1. Professor WINANS. Open to graduates and seniors.] Not given in 1917-18.
 20. **Seminary.** Throughout the year, credit two hours a term. Conducted by Professor WINANS and other members of the department.
 29. **Oral Expression for Architects.** First term, credit three hours.

PHILOSOPHY

1. **Problems of Philosophy.** First term, credit three hours. Professor THILLY, Dr. THOMAS, and Mr. PAINE.
 2. **Logic.** First term, credit three hours. Mr. PAINE.
 3. **Logic.** Second term, credit three hours. Professor CREIGHTON and Mr. PAINE.
 4. **The Fine Arts: their Philosophy and History in Outline.** First term, credit three hours. Professor HAMMOND.
 5. **History of Philosophy.** Throughout the year, credit three hours a term. Professor CREIGHTON.
 6. **Moral Ideas and Practice.** Second term, credit three hours. Lectures, Professor THILLY, Dr. THOMAS.
 7. **Ethics.** First term, credit three hours. Professor THILLY.
 8. **The Renaissance.** Second term, credit three hours. Professor HAMMOND.
 9. **Philosophical Ideas in Nineteenth Century Literature.** First term, credit three hours. Professor ALBEE.
 10. **Social and Political Ethics, and the Theory of the State.** Second term, credit three hours. Professor THILLY.
 For juniors, seniors, and graduates only.
 11. **Philosophical Results and Applications.** Second term, credit one hour. Open to all students who have taken at least one course in philosophy. Professor CREIGHTON.
 12. **The Theory of Evolution: Its History and Significance.** Throughout the year, credit one hour a term. Mr. PAINE.
 13. **Origin and Development of Religious Ideas.** First term, credit two hours. Mr. PAINE.
 14. **Psychology and Philosophy of Religion.** Second term, credit two hours. Mr. PAINE.
 16. **Reading of German Philosophy.** Throughout the year, credit one hour a term. Professor HAMMOND.
 17. **Sources of Ancient and Medieval Philosophy.** Second term, credit two hours. Professor HAMMOND.
 Primarily for graduates, and open to seniors only by special permission.
 [18. **Types of Metaphysical Theory.** First term, credit two hours. Prerequisite course 1 or 5 or the equivalent. Professor CREIGHTON.] Not given in 1917-18.
 19. **The Development of Modern Philosophical Problems.** First term, credit three hours. Prerequisite course 5 or its equivalent. Professor CREIGHTON.
 20. **History of Ethics, Ancient, Medieval and Renaissance.** First term, credit two hours. Professor HAMMOND.
 Primarily for seniors and graduates.
 21. **History of Modern Ethics.** Second term, credit two hours. Professor ALBEE.
 Primarily for graduates.

[26. **Advanced Ethics.** Throughout the year, credit three hours a term. Professor THILLY. Primarily for graduates.] Not given in 1917-18.

27. **The Republic of Plato.** Throughout the year, credit three hours a term. Professor HAMMOND. Reading of the Greek text.

28. **Aristotle's Ethics.** Throughout the year, credit three hours a term. Professor HAMMOND.

29. **Modern Idealistic Theories of Ethics.** Throughout the year, credit three hours a term. Professor THILLY. Primarily for graduates.

30. **Empiricism and Rationalism.** First term, credit three hours. Professor ALBEE. Primarily for graduates.

31. **The Critical Philosophy of Kant.** Second term, credit three hours. Professor ALBEE. Primarily for graduates.

[32. **Early Rationalism: Spinoza and Leibniz.** Second term, credit two hours. Professor ALBEE. Primarily for graduates.] Not given in 1917-18.

33. **German Pessimism, with special reference to Schopenhauer.** Second term, credit two hours. Professor ALBEE. Primarily for graduates.

[34. **Problems and Methods in Recent Philosophy.** Throughout the year, credit two hours a term. Professor ALBEE. Primarily for graduates.] Not given in 1917-18.

[35. **Logical Theory.** Throughout the year, credit two hours a term. Professor ALBEE. Primarily for graduates.] Not given in 1917-18.

36. **The Philosophy of Bergson.** Throughout the year, credit two hours a term. Professor ALBEE. Primarily for graduates.

37. **Seminary in Ethics.** Throughout the year, credit two hours a term. Professor THILLY.

38. **Seminary in Ancient and Medieval Philosophy.** Throughout the year, credit two hours a term. Professor HAMMOND.

40. **Seminary in Logic and Metaphysics.** Professor CREIGHTON and Mr. PAINE.

41. **Seminary in Aesthetics.** Throughout the year, credit two hours a term. Professor HAMMOND.

PSYCHOLOGY

1. **Elementary Psychology.** First term, credit three hours. Professor TITCHENER, Assistant Professor WELD, Dr. DALLENBACH, Mr. BISHOP, and Mr. DIMMICK.

Not open to juniors or seniors. Primarily for sophomores in the College of Arts and Sciences.

1a. **Elementary Psychology.** First term, credit three hours. Dr. BORING and Mr. HOISINGTON. Open to juniors and seniors.

1b. **Elementary Psychology.** Second term, credit three hours. Dr. DALLENBACH, Mr. BISHOP and Mr. HOISINGTON. Open to juniors and seniors.

2. **General Psychology: Problems and Points of View.** Second term, credit three hours. Prerequisite course 1, 1a, or 1b. Assistant Professor WELD.

2a. **Psychology of the Abnormal Mind.** First term, credit two hours. Prerequisite course 2 or 3. Dr. BORING.

3. **Experimental Psychology: Qualitative.** Repeated in second term, credit three hours. Prerequisite course 1, 1a, or 1b. Assistant Professor WELD, Dr. BORING, Dr. DALLENBACH, Mr. BISHOP, Mr. DIMMICK, and Mr. HOISINGTON.

4. **Experimental Psychology: Quantitative.** Repeated in second term, credit three hours. Prerequisite courses 1, 1a, or 1b, and 3. Assistant Professor WELD, Dr. BORING, Dr. DALLENBACH, Mr. BISHOP, Mr. DIMMICK, and Mr. HOISINGTON.

[5. **Systematic Psychology: Sensation, Image.** First term, credit three hours.] Not given in 1917-18.

5a. **Systematic Psychology: Perception, Idea.** First term, credit three hours. Prerequisite course 3, or by special permission course 2. Assistant Professor WELD.

[6. **Systematic Psychology: Feeling, Attention, Action.** Second term, credit three hours.] Not given in 1917-18.

6a. **Systematic Psychology: Memory, Imagination and Thought; Emotion and Volition.** Second term, credit three hours. Prerequisite course 3, or by special permission course 2. Dr. BORING, Dr. DALLENBACH, and Mr. BISHOP.

7. **Reading of German Psychology.** First term, credit one hour. Dr. DALLENBACH.

[8. **Reading of French Psychology.** Second term, credit one hour.] Not given in 1917-18.

9. **Psychological Problems.** Throughout the year, credit one to five hours a term. Prerequisite course 4. Assistant Professor WELD, Dr. BORING, and Dr. DALLENBACH.

EDUCATION

Psychology 1, 1a, or 1b is prerequisite to all courses in Education.

1. **Educational Psychology.** Repeated in second term, credit three hours, first term. Professor OGDEN. Assistant Professor FOSTER.

2. **Principles of Education.** First term, credit three hours. Professor OGDEN. Prerequisite Education 1.

3. **History of Education.** Second term, credit three hours. Assistant Professor FOSTER. Prerequisite Education 1.

5. **High School Teachers and Teaching.** Second term, credit two hours. Professor BRISTOL. For seniors only.

5. **Philosophy of Education.** Second term, credit three hours. Professor OGDEN. Prerequisite Education 1, and at least one course in philosophy.

6. **Experimental Methods and Results in Education.** Second term, credit two hours. Assistant Professor FOSTER. Prerequisite Education 1.

7. **Mental Tests.** First term, credit two hours. Assistant Professor FOSTER. Prerequisite Education 1 and Psychology 3.

8. **Experimental Investigation.** Repeated in second term, credit and hours to be arranged. Assistant Professor FOSTER. Prerequisite Education 7.

9. **Reading of German Educational Psychology.** First term, credit two hours. Professor OGDEN. Prerequisite Education 1.

10. **Seminary in Education.** Throughout the year, credit two hours a term. Professor OGDEN. Prerequisite Education 1.

HISTORY

A. **The History of Civilization.** Throughout the year. Professors SCHMIDT, BURR, and others.

1. **Greek and Roman History.** First term, credit three hours. Professor SCHMIDT.

2. **Greek and Roman History.** Second term, credit three hours. Professor SCHMIDT.

[3. **Alexander's Empire and the Hellenistic Age.** First term, credit two hours. Professor ———.] Not given in 1917-18.

[4. **Roman History.** Second term, credit two hours. Professor ———.] Not given in 1917-18.

[5. **Military History.** First term, credit two hours. Professor ———.] Not given in 1917-18.

[5a. **History of Science.** First term, credit two hours. Professor ———.] Not given in 1917-18.

[6. **History of Law.** Second term, credit three hours. Professor ———.] Not given in 1917-18.

[7. **Seminary in Greek and Roman History.** Throughout the year, credit two hours a term. Professor ———. Open to graduates and qualified undergraduates.] Not given in 1917-18.

11. **The Middle Ages.** First term, credit three hours. Professor BURR.

12. **The Renaissance and the Reformation.** Second term, credit three hours. Professor BURR.

[13. **The Rise of Tolerance.** Throughout the year, credit two hours a term. Professor BURR. Open to seniors and graduates properly equipped in language and in history.] Not given in 1917-18.

14. **Medieval Life.** First term, credit one hour. Professor Burr.

15. **Seminary in Medieval History.** Second term, credit one hour. Professor BURR. Open only to seniors and graduates.

16. **Canon Law.** Throughout the year, credit two hours a term. Professor BURR.

22. **History of Modern Europe.** Throughout the year, credit three hours a term. Professor BECKER.

23. **The French Revolution.** First term, credit two hours. Professor BECKER.

24. **The Napoleonic Era.** Second term, credit two hours. Professor BECKER. Prerequisite course 22 or 23, or a satisfactory equivalent.

28. **Seminary in Modern European History.** Throughout the year, credit two hours a term. Professor BECKER. Open to graduates and to properly prepared seniors.

52. **American History, 1783 to 1850.** First term, credit three hours. Professor HULL.

53. **American History, 1850 to 1898.** Second term, credit three hours. Professor BRETZ.

54. **Economic History of the Colonies, 1600 to 1800.** First term, credit three hours. Professor HULL.

55. **Economic History of the United States, since 1800.** Second term, credit three hours. Professor HULL.

56. **Constitutional History of the United States, since 1860.** First term, credit three hours. Prerequisite courses 52 and 53, or the equivalent. Professor BRETZ.

57. **Practice in Historical Investigation.** First (also possibly second) term. Credit one hour a term. Professor HULL. Prerequisite permission from the instructor.

58. **The Period of the Civil War.** Second term, credit three hours. Prerequisite course 53 or the equivalent. Professor BRETZ.

59. **American History: The Settlement of the Middle West.** First term, credit three hours. Professor BRETZ.

60. **Constitutional History of the United States to 1860.** Second term, credit two hours. Prerequisite course 52. Professor HULL.

61. **Seminary.** Throughout the year, credit two hours a term. Professors HULL and BRETZ.

71. **The Sciences Auxiliary to History.** First term, credit one hour. Professor BURR. Not open to underclassmen.

72. **Historical Geography.** Throughout the year, credit one hour a term. Professor BURR. Not open to underclassmen.

73. **Palæography and Diplomatics.** Throughout the year, credit one hour a term. Professor BURR.

[75. **Historical Method.** First term, credit one hour. Professor BURR. Open only to seniors and graduates.] Not given in 1917-18.

76. **The Teaching of History.** Course for teachers. Second term, credit two hours. Professor BURR with aid from his colleagues. Open only to seniors and graduates who are specializing in history.

77. **Introduction to the Literature of History.** A general survey, period by period, of the sources and literature of history. Professors SCHMIDT, BURR, BECKER, HULL, BRETZ. For graduates only.

Oriental History. See Semitic Languages and Literatures, courses 9a, 9b.

POLITICAL SCIENCE

51. **Elementary Economics.** Throughout the year, credit three hours a term. Professor DAVENPORT, Assistant Professors USHER and REED, and Mr. WORKING.

52. **Elements of Economics.** Throughout the year, credit two hours a term. Mr. CAMPBELL. A special course for students in civil and mechanical engineering.

53a. **Political Institutions.** First term, credit three hours. Professor ORTH, Assistant Professor SABY.

53b. **Comparative Politics.** Second term, credit three hours. Assistant Professor SABY.

54a. **Municipal Administration.** First term, credit three hours. Prerequisite course 53a. Assistant Professor SABY.

54b. **State Administration.** Second term, credit three hours. Prerequisite course 53a. Professor ORTH.

54c. **Municipal Problems.** Second term, credit three hours. Prerequisite course 53a. Assistant Professor SABY.

55a. **Elementary Social Science.** First term, credit three hours. Course 51 should precede or be taken with this course. Professor WILLCOX.

55b. **Elementary Social Science.** Second term, credit three hours. Course 51 should precede or be taken with this course. Professor WILLCOX.

56a. **Elements of Business Law.** First term, credit two hours. Professor ORTH. Open to upperclassmen in all colleges except Law.

56b. **Government Control of Industry.** Second term, credit three hours. Prerequisite course 56a. Professor ORTH. Open to upperclassmen in all colleges except Law.

57b. **Lectures on Citizenship.** Second term, credit one hour.

58a. **Elements of Accounting.** Repeated in second term, credit three hours. Prerequisite course 51 or its equivalent. Assistant Professor ENGLISH.

58b. **Principles of Accounting.** Repeated in second term, credit three hours. Prerequisite course 58a. Assistant Professor ENGLISH.

59a. **Cost Accounting.** First term, credit three hours. Prerequisite course 58b. Assistant Professor ENGLISH.

59b. **Accounting Problems.** Second term, credit three hours. Prerequisite course 58b. Assistant Professor ENGLISH.

[60. **The American Party System.** First term, credit two hours. Prerequisite course 53a. Professor ORTH.] Not given in 1917-18.

62. **Industrial Organization.** First term, credit two hours. Prerequisite courses 51 and 58a; or 58a may be taken at the same time. Professor KIMBALL. Seniors and graduates; others by permission. See I 11 Sibley College.

63a. **Corporation Finance.** First term, credit three hours. Prerequisite course 58a. Professor YOUNG.

63b. **Monopoly and Competition.** Second term, credit three hours. Prerequisite course 63a. Professor YOUNG.

64. **Money and Banking.** Throughout the year, credit three hours a term. Prerequisite course 51. Professor YOUNG.

[65a. **The Industrial Revolution in England, 1700 to 1850.** First term, credit three hours. Prerequisite course 51, previously or concurrently, or work in European History. Assistant Professor USHER.] Not given in 1917-18.

[65b. **Social and Economic Problems of the 19th Century in England.** Second term, credit three hours. Prerequisite course 51, previously or concurrently. Assistant Professor USHER.] Not given in 1917-18.

66a. **The Labor Problem.** Second term, credit two hours. Prerequisite course 51. Mr. CAMPBELL.

- 66b. **Socialism.** Second term, credit three hours. Prerequisite course 51.
- 70a. **Public Finance.** First term, credit two hours. Prerequisite course 51. Mr. CAMPBELL.
73. **Insurance.** Second term, credit three hours. Prerequisite course 51. Assistant Professor REED.
- 76a. **Elementary Statistics.** First term, credit three hours. Prerequisite course 51. Professor WILLCOX.
- 76b. **Economic Statistics.** Second term, credit three hours. Prerequisite course 51. Professor WILLCOX.
- 78a. **International Law and Diplomacy.** First term, credit three hours. President SCHURMAN and Assistant Professor SABY. Open to upperclassmen in Arts and Sciences, to students in Law, and to approved upperclassmen in other colleges.
- [78b. **Constitutional Government.** Second term, credit three hours. Prerequisite course 53a. Professor ORTH.] Not given in 1917-18.
- [79a. **History of Political Thought.** First term, credit two hours. Prerequisite course 53a. Assistant Professor SABY.] Not given in 1917-18.
- 79b. **Modern Political Thought.** Second term, credit three hours. Prerequisite course 53a. Assistant Professor SABY.
80. **Commercial Policies and Imperialism.** First term, credit three hours. Prerequisite course 51. Assistant Professor USHER.
81. **The History of Price Making and the Growth of Produce Exchanges.** Second term, credit three hours. Prerequisite course 51; open by special permission to those who have had courses in European history. Assistant Professor USHER.
- 87a. **Principles of Economics.** First term, credit three hours. Professor DAVENPORT. Prerequisite course 51 or its equivalent.
- 87b. **Public Revenues.** Second term, credit three hours. Prerequisite course 51 and preferably course 87a. Professor DAVENPORT.
88. **Value and Distribution.** Throughout the year, credit two hours a term. Professor DAVENPORT.
89. **Mathematical Economics.** Throughout the year, credit two hours a term. Professor YOUNG. Primarily for graduates.
90. **General Problems of Economic History.** First term, credit two hours. Assistant Professor USHER. Primarily for graduates.
91. **Research in Statistics.** Throughout the year, credit to be arranged. Professor WILLCOX.
92. **Research in Finance.** Throughout the year, credit two or three hours a term. Professor YOUNG.
93. **Research in Accounting.** Throughout the year, credit two or three hours a term. Assistant Professor ENGLISH.
94. **Research in Politics.** Throughout the year, credit one to three hours a term. Professor ORTH.
95. **Seminary in Political Science and Public Law.** Throughout the year, credit two hours a term. Professor ORTH.
99. **General Seminary.** Throughout the year, credit two hours a term. Conducted by members of the department. Open only to graduate students.
- Rural Economy.** See Rural Economy in College of Agriculture.

BIBLIOGRAPHY

1. **Bibliography.** First term, credit two hours. Librarian AUSTEN.
2. **Bibliography.** Second term, credit one hour. Librarian AUSTEN.

MUSIC

The courses offered by the Department of Music are designed to afford to all students having sufficient native ability, the opportunity to study music as a part of the college course. The aim is to make musical training contribute to liberal culture.

1. **Elementary.** Throughout the year, credit two hours a term. Open to all students showing sufficient aptitude to pursue the subject with profit. Professor DANN.
3. **Intermediate.** Throughout the year, credit two hours a term. Open to students who have completed course 1 or who meet the requirements prescribed in course 1. Professor DANN.
5. **Choral.** Throughout the year, credit one hour a term. Open to any student possessing a voice of satisfactory quality and volume, who is qualified to sing the larger choral works given at the annual music festival. Professor DANN.
7. **Advanced Choral.** Throughout the year, credit two hours a term. Professor DANN.
10. **Harmony.** Prerequisite course 1, or the equivalent. Throughout the year, credit two hours a term. Assistant Professor QUARLES.

12. **Advanced Harmony and Elementary Form.** Open to students who have completed course 10 and to others equally qualified. Throughout the year, credit two hours a term. Assistant Professor QUARLES.

14. **Applied Form and Composition.** Open to students who have completed course 12, and to others equally qualified. Throughout the year, credit two hours a term. Assistant Professor QUARLES. It is recommended that courses 14 and 16 be taken simultaneously.

16. **Counterpoint.** Open to students who have completed course 12, and to others equally qualified. Throughout the year, credit two hours a term. Assistant Professor QUARLES.

18. **History and Appreciation of Music.** No preliminary training required. Throughout the year, credit two hours a term. Assistant Professor QUARLES.

MATHEMATICS

1. **Solid Geometry.** Repeated in second term, credit three hours. Open to all students, but intended especially for those who have entered with the minor requirements in mathematics and who are preparing: (a) to teach mathematics in the secondary schools; (b) to take up engineering work later in the course; (c) to specialize in chemistry or physics.

2. **Advanced Algebra.** Repeated in second term, credit five hours. Open to all students, but designed especially for those mentioned under course 1.

2(E). **Advanced Algebra.** First term, credit three hours. Open to students who have met the entrance requirements in intermediate algebra.

3. **Plane Trigonometry.** Repeated in second term, credit three hours. Open to all students, but designed especially for those mentioned under course 1.

5. **Analytic Geometry and Calculus.** For students in the College of Civil Engineering. Prerequisite courses 1, 2, and 3, or their equivalent.

6. **Analytic Geometry and Calculus.** Primarily for students in Sibley College. Prerequisite courses 1, 2, and 3, or their equivalent.

6(1). First term, daily, credit six hours. Second term, daily, credit six hours.

7. **Analytic Geometry and Calculus.** Throughout the year. Prerequisite courses 1, 2, and 3, or their equivalent. Recommended for students intending to specialize in physics or chemistry.

7(1). First term, credit five hours. Repeated in the second term.

7(2). Second term, credit five hours.

8. **Analytic Geometry and Calculus.** Primarily for students in the College of Architecture. Throughout the year, credit three hours a term. Prerequisite courses 1, 2, and 3, or their equivalent.

15. **Elementary Course in Higher Mathematics.** Throughout the year, credit two hours a term. Prerequisite courses 1, 2, and 3, or their equivalent. Assistant Professor CARVER, and Dr. SILVERMAN.

20. **Teachers' Course.** Throughout the year, credit three hours a term. Assistant Professor CRAIG.

23. **Modern Algebra.** First term, credit three hours. Assistant Professor RANUM.

24. **Theory of Equations.** Second term, credit three hours. Prerequisite course 7 or its equivalent. Dr. GABA.

26. **Theory of Groups.** Second term, credit three hours. Prerequisite course 7 or its equivalent. Assistant Professor CARVER.

41. **Elementary Differential Equations.** Throughout the year, credit three hours a term. Prerequisite course 7 or its equivalent. Mr. ———.

42. **Advanced Calculus.** Throughout the year, credit three hours a term. Prerequisite course 7 or its equivalent. Assistant Professor GILLESPIE.

44. **Topics in Convergent and Divergent Series.** Throughout the year, credit three hours a term. Prerequisite course 42. Dr. SILVERMAN.

61. **Projective Geometry.** Throughout the year, credit three hours a term. Prerequisite course 7 or its equivalent. Professor SNYDER.

62. **Advanced Analytic Geometry.** Throughout the year, credit three hours a term. Prerequisite course 7 or its equivalent. Dr. GILMAN.

63. **Algebraic Curves.** Throughout the year, credit three hours a term. Prerequisite courses 61 and 62. Dr. MCKELVEY.

67. **Differential Geometry.** Second term, credit three hours. Prerequisite courses 7 and 41. Assistant Professor RANUM.

80. **Differential Equations of Mathematical Physics.** Throughout the year, credit three hours a term. Assistant Professor HURWITZ.

81. **Introduction to Mathematical Physics.** Throughout the year, credit three hours a term. Assistant Professor OWENS.

83. **Theory of Probabilities.** Throughout the year, credit three hours a term. Professor McMAHON.

83a. **Introduction to Actuarial Science.** Throughout the year, credit three hours a term. Prerequisite courses 7 and 83, or equivalents. Professor McMAHON.

85. **Vector Analysis.** First term, credit three hours. Prerequisite course 7 and a knowledge of elementary physics. Assistant Professor SHARPE.

86. **Potential Function and Fourier's Series.** Throughout the year, credit three hours a term. Assistant Professor CRAIG.

ASTRONOMY

1. **General Astronomy.** First term, credit three hours. No prerequisite, but a knowledge of elementary physics is desirable. Professor LELAND.

2. **Observations.** Second term, credit one hour. Prerequisite course 1. Professor LELAND.

3. **Astronomical Laboratory.** Second term, credit one hour. Prerequisite course 1. Professor LELAND.

PHYSICS

2. **Introductory Experimental Physics.** Repeated in second term, credit five hours. Professors NICHOLS, MERRITT, and SHEARER, Assistant Professor GIBBS, and Messrs. BAILEY, GRANTHAM, KENNARD, MALLORY, MORATH, RODGERS. Required of candidates for B.Chem., C.E., B.S., and D.V.M.

3. **Introductory Experimental Physics.** Primarily for students in mechanical and electrical engineering. Repeated in second term, credit six hours. Professors NICHOLS, MERRITT, and SHEARER, Assistant Professor GIBBS, and Messrs. BAILEY, BIDWELL, GRANTHAM, MORATH, and RODGERS. Hours to be arranged. Entrance physics is not accepted as an equivalent of this course.

4a. **General Physics.** Primarily for Arts students. First term, credit three hours. Prerequisite course 2 or 3. Assistant Professor GIBBS.

4b. **General Physics.** Primarily for students in Arts and Sciences. Second term, credit three hours. Prerequisite Physics 2 or 3. Assistant Professor GIBBS.

7. **General Physics.** Primarily for students in civil engineering. Repeated in second term, credit three hours. Prerequisite Physics 2. Messrs. MURDOCK and MALLORY.

8. **Properties of Matter, Electrostatics, and Magnetism.** Primarily for students in mechanical and electrical engineering. Second term, repeated first term following year, credit two hours. Prerequisite Physics 3, and Mathematics 6 (1). Mathematics 6 (2) must be taken in parallel. Assistant Professor RICHTMYER, and Messrs. BIDWELL, GERMANN, JENNESS, PIDGEON, and SCHELLENG.

9. **Current Electricity and Heat.** Primarily for students in mechanical and electrical engineering. Repeated in second term, credit two hours. Prerequisite Physics 8. Instructing staff as in Physics 8.

9c. **Magnetism, Electricity, and Heat.** First term, credit two hours. Required of candidates for B.Chem. Prerequisites: Physics 2, two hours of Physics 10, and two hours of Physics 14. Two additional hours of 14 must be taken with 9c. Mr.——.

10. **Introductory Physical Experiments.** Either term or throughout the year, credit one to three hours a term. May be elected by students that are taking or have completed Physics 2, 3, 4, or 7. Assistant Professor RICHTMYER, and Messrs. JENNESS, PEARSALL, SMITH, and TYN-DALL.

12. **Physical Experiments.** Primarily for students in the College of Arts and Sciences. Either term or throughout the year, credit one to four hours a term. Prerequisites at least eight hours of physics, taken from Physics 2, 3, 4, 7, and 10, or the equivalent. Assistant Professor RICHTMYER and Mr. BIDWELL. Students electing two hours of University credit take one three-hour period a week.

14. **Physical Experiments.** Primarily for candidates for B.Chem., C.E., and M.E. Either term or throughout the year, credit one to four hours a term. Prerequisite analytic geometry and the calculus; and at least seven hours of Physics taken from preceding courses, or Physics 3 if Physics 8 and 9 be taken in parallel, or the equivalent. Assistant Professor RICHTMYER, and Messrs. BIDWELL, GERMANN, PIDGEON, SCHELLENG, BITNER, KOLLER, MOORE, and PEARSALL.

17. **Practice Course for Teachers.** Second term, credit three hours. Prerequisite Physics 2, and two hours of Physics 10, or the equivalent. Students expecting to teach high school physics should take at least Physics 4 in addition. Assistant Professor GIBBS.

18. **Theory and Practice of Photography.** Repeated in second term, credit two hours. Prerequisite, the knowledge of chemistry and physics that in general is possessed by those who have completed Chemistry 1 and Physics 2. Professor NICHOLS and Mr. RODGERS, and Miss SEVERANCE.

19. **Advanced Photography,** with special reference to its application to research. Repeated in second term, credit two hours. Prerequisite courses 2, 10 or 14, and 18, or the equivalent. Professor NICHOLS.

20. **Heat.** First term, credit five hours. Assistant Professor BLAKER.

[21. **Light.** Second term, credit five hours. Assistant Professor BLAKER.] Not given in 1917-18.

22. **Electricity and Magnetism.** Second term, credit five hours. Assistant Professor BLAKER.

[23. **Properties of Matter.** First term, credit five hours. Assistant Professor BLAKER.] Not given in 1917-18.

[24. **Sound.** Second term, credit two hours. Assistant Professor BLAKER.] Not given in 1917-18.

25. **Advanced Laboratory Practice.** Either term or throughout the year. Credit one to three hours a term. Assistant Professor BLAKER.

26. **Photometry and Illumination.** Laboratory work. Repeated in second term, credit one to four hours a term. Prerequisite Physics 14. Assistant Professor RICHTMYER.

27. **Advanced Photometry and Illumination.** Repeated in second term, and throughout the year. Credit, two to six hours a term. Prerequisite Physics 26. Assistant Professor RICHTMYER.

28. **Spectrophotometry.** Repeated in second term, credit two to four hours. Prerequisite Physics 14. Assistant Professor RICHTMYER.

29. **High Temperature Measurements.** Repeated in second term or throughout the year. Credit two hours a term. Prerequisites, Physics 12 or 14. Primarily for juniors and seniors specializing in Physics. Dr. BIDWELL.

33. **Alternating Currents.** First term, credit two hours. Prerequisite courses 1, 6 or 10, and 14. Professor BEDELL.

34. **Electrical Laboratory.** Either term or throughout the year, credit as arranged. Prerequisite courses 2, 6 or 10, and 14. Professor BEDELL and Mr. BOWN. Primarily for seniors.

35. **Advanced Electrical Laboratory.** Either term or throughout the year, credit as arranged. Prerequisite courses 2, 6 or 10, and 14. Professor BEDELL and Mr. BOWN.

36. **Advanced Alternating Currents.** Throughout the year, credit two hours a term. Prerequisite courses 2, 6 or 10, 14, 33. Professor BEDELL. For graduates.

37. **Theses in Applied Electricity.** Second term, or throughout the year, credit two to eight hours a term. Prerequisite courses 2, 6 or 10, and 14. Professor BEDELL.

40. **Recent Advances in Experimental Physics.** Throughout the year, credit one hour a term. Professor MERRITT.

40a. **Electric Waves and Oscillations.** Second term. Credit one to four hours. Professor MERRITT. Prerequisites ordinarily course 14 and one term of course 40, or their equivalent.

41. **Fluorescence and Phosphorescence.** First term, credit one hour. Prerequisite course 10 or 14. Professor NICHOLS.

42. **History of Physics in the 19th Century.** Second term, credit one hour. Prerequisite course 2. Professor NICHOLS.

[42a. **History of the Electric Transmission of Intelligence.** Second term, credit one hour. Prerequisite course 2. Professor NICHOLS.] Not given in 1917-18.

[43. **Photometry and the Physics of Illumination.** First term, credit two hours. Prerequisite course 10 or 14. Professor NICHOLS.] Not given in 1917-18.

44. **X-Ray Photography.** Second term, credit two hours. Prerequisite courses 2 and 10, and a knowledge of ordinary photography. Professor SHEARER.

45. **Radioactivity and Allied Phenomena.** Throughout the year, credit three hours a term. Professor SHEARER.

46. **Heat.** Throughout the year, credit four hours a term. Prerequisite courses 2, 7 or 10, and 14. Professor SHEARER. Primarily for graduates.

47. **Advanced X-Ray Laboratory.** Either term. Professor SHEARER. Open to students who have completed course 44.

[48a. **Electrolysis.** First term, credit one hour. Dr. GERMANN.] Not given in 1917-18.

48b. **Voltaic Cells and Storage Batteries.** First term, credit one hour. Dr. GERMANN.

49. **Light.** Throughout the year, credit four hours a term. Prerequisite courses Physics 21 and Mathematics 7 or their equivalents. Assistant Professor BLAKER. Primarily for graduates.

50. **Physics Seminary.** Throughout the year, credit two hours a term. Professor NICHOLS.

50b. **Junior Physics Seminary.** Throughout the year, credit one hour a term. Hours to be arranged. Assistant Professor RICHTMYER.

51. **Theoretical Physics.** Throughout the year, credit four hours a term. Professor MERRITT. Primarily for graduates.

[52. **Theoretical Physics.** Electricity and magnetism. Throughout the year, credit four hours a term. Professor MERRITT. Primarily for graduates.] Not given in 1917-18.

54. **Thermodynamics.** Throughout the year, credit two or three hours a term. Prerequisite courses 2, 7 or 10, 14. Physics 20 is advised, though not required, as a preliminary course. Professor TREVOR.

[55. **Kinetic Theory of Matter, with special reference to gases.** Credit two hours a term. Dr. KENNARD.] Not given in 1917-18.

[56. **Statistical Mechanics and the Quantum Theory.** Credit two hours a term. Dr. KENNARD.] Not given in 1917-18.

57. **Electron Theory.** Credit two hours a term. Dr. KENNARD.

CHEMISTRY

INTRODUCTORY INORGANIC CHEMISTRY

1. **Introductory Inorganic Chemistry.** Repeated in second term, credit six hours. Professor BROWNE, Dr. WELSH, and Messrs. MCKINNEY, TANNER, FOGLESONG, WIGHTMAN, DANN, STRICKER, BUTLER, and MCCOY.

ANALYTICAL CHEMISTRY

6. **Qualitative and Quantitative Analysis.** Repeated in second term, credit five hours. Prerequisite course 1. Messrs. RIDER, BABCOCK, BRANDES, CLARK, and SHERBURNE.

7. **Qualitative Analysis.** Repeated in second term, credit six hours. Prerequisite course 1. Messrs. RIDER and BABCOCK.

[9. **Advanced Qualitative Analysis.** Repeated in second term, credit one, two, or three hours. Prerequisite courses 7, 12, and 30. Mr. RIDER. For graduates and advanced undergraduates.] Not given in 1917-18.

12. **Quantitative Analysis, Elementary Course.** Repeated in second term, credit six hours. Prerequisite course 6 (or preferably 7). Assistant Professor ——— and Messrs. KOLLER, MICHENER, and LEVY.

14. **Quantitative Analysis, Advanced Course.** Repeated in second term, credit two to four hours. Prerequisite course 6 (or 7 and 12). Assistant Professor ——— and Messrs. KOLLER, MICHENER, JAFFIN, and LEVY.

15. **Quantitative Analysis, Advanced Lectures.** Second term, credit two hours. Prerequisite course 6 (or 7 and 12). Assistant Professor ———.

16. **Electrochemical Analysis.** Repeated in second term, credit one to two hours. Prerequisite course 6 (or 7 and 12). Assistant Professor ——— and Mr. KOLLER.

18. **Assaying.** First term, credit three hours. Prerequisite course 6 (or 7 and 12), and if possible a course in mineralogy. Assistant Professor ——— and Mr. KOLLER.

19. **Qualitative and Quantitative Gas Analysis.** Lectures. Repeated second term, credit two hours. Prerequisite course 6 (or 7) and Physics 2. Course 19 should be preceded or accompanied by course 12. Assistant Professor ANDERSON.

20. **Technical Gas Analysis.** Laboratory. Repeated second term, credit two hours. Open to those who are taking or have taken course 19. Assistant Professor ANDERSON, and Messrs. ERSKINE, CULBERTSON, and HOYT.

21. **Gas Analysis, Advanced Course.** Repeated in second term, credit one or more hours. Prerequisite courses 19 and 20. Assistant Professor ANDERSON.

24. **Opticochemical Methods.** Second term, credit three hours. Prerequisite course 6 (or 7 and 12) and Physics 2 and 10. Assistant Professor ANDERSON, and Messrs. ERSKINE and JEWETT.

25. **Opticochemical Methods, Advanced Course.** First term, credit one or more hours. Prerequisite course 24. Assistant Professor ANDERSON.

ORGANIC CHEMISTRY

30. **Organic Chemistry.** Throughout the year, credit six hours a term. Prerequisite course 6 (or 7 and 12). Open to those who are taking course 12. Professor ORNDORFF, and Messrs. ADAMSON, JACKSON, WALDBAUER, and PASKOW.

31. **Organic Chemistry.** Throughout the year, credit three hours a term. Prerequisite course 6 (or 7 and 12). Open to those who are taking course 12. Professor ORNDORFF, and Messrs. JACKSON and WALDBAUER.

32. **Elementary Organic Chemistry.** First term, credit four hours. Prerequisite course 6 (or 7 and 12). Open to those who are taking course 12. and Messrs. ADAMSON, JACKSON, WALDBAUER and PASKOW.

33. **Special Chapters in Organic Chemistry.** Throughout the year, credit two hours a term. Prerequisite course 30. Professor ORNDORFF and Mr. JACKSON.

34. **Advanced Organic Chemistry.** Throughout the year, credit two to six hours a term. Open to those who have had or are taking course 33. Professor ORNDORFF and Mr. JACKSON.

35. **The Coal Tar Dyestuffs.** First term, credit one hour. Open to those who have had course 30 and have had or are taking course 33. Professor ORNDORFF.

[36. **Stereochemistry.** First term, credit one hour. Prerequisite course 30 or 31. Professor ORNDORFF.] Not given in 1917-18.

37. **Methods of Organic Analysis.** Throughout the year, credit two to six hours a term. Prerequisite course 30. Professor ORNDORFF.

38. **The Coal Tar Dyestuffs.** Laboratory practice. Throughout the year, credit two to four hours a term. Open to those who have had or are taking course 33. Professor ORNDORFF.

INDUSTRIAL CHEMISTRY

[40. **General Industrial Chemistry.** Throughout the year, credit three hours a term. Prerequisite courses 12, 30, 40, 51.] Not given in 1917-18.

[41. **Advanced Industrial Chemistry.** Second term, credit two hours. Prerequisite course 40.] Not given in 1917-18.

42. **Chemistry of Illuminating and Power Gases.** First term, credit one hour. Prerequisite courses 30, and open to those who have completed or are taking courses 50 and 51. Assistant Professor ANDERSON.

INORGANIC CHEMISTRY

46. **Advanced Inorganic Chemistry.** Throughout the year, credit two hours a term. Prerequisite course 30, and open to those who have completed or are taking courses 50 and 51. Professors DENNIS and BROWNE, and Mr. BRIDGMAN.

47. **Advanced Inorganic Chemistry.** Either term, credit, two, three, or four hours. Prerequisite course 30. Professors DENNIS and BROWNE, and Mr. BRIDGMAN.

Course 47 is designed to accompany course 46, but either course may be taken separately.

[48. **Selected Topics in Advanced Inorganic Chemistry.** Throughout the year, credit two hours a term. Prerequisite course 30. Courses 50 and 51 should precede or accompany this course. First term, Professor BROWNE. Second term, Dr. WELSH.] Not given in 1917-18.

[49. **Chemistry of Gases.** First term, credit one hour. Prerequisite course 6 (or 7 and 12), and should be preceded or accompanied by 19 and 20. Assistant Professor ANDERSON.] Not given in 1917-18.

PHYSICAL CHEMISTRY

50. **Introductory Physical Chemistry.** Throughout the year, credit three hours a term. Prerequisite course 30 or 32, and Physics 2 and 10. Assistant Professor BRIGGS, and Messrs. ENGELDER and BRAY.

51. **Physical Chemistry Laboratory.** Throughout the year, credit three hours a term. Open only to those who have taken or are taking course 50. Assistant Professor BRIGGS, and Messrs. ENGELDER and BRAY.

52. **Advanced Physical Chemistry.** Throughout the year, credit three hours a term. Prerequisite course 50. Professor BANCROFT.

53. **Applied Colloid Chemistry.** Throughout the year, credit two hours a term. Professor BANCROFT. Open to candidates for the degree of Bachelor of Chemistry if they have taken course 50; to others only by special permission.

[55. **Theoretical Electrochemistry.** Lectures. Throughout the year, credit three hours a term. Professor BANCROFT.] Not given in 1917-18.

56a. **Applied Electrochemistry.** Throughout the year, credit two hours a term. Prerequisite course 50. Assistant Professor BRIGGS and Mr. THOMPSON. It is advisable, but not obligatory, to take 56b along with this course.

56b. **Applied Electrochemistry.** Throughout the year, credit two hours a term. Open to those who have had 50 and 51, and have taken or are taking 56a. Assistant Professor BRIGGS and Mr. THOMPSON.

57. **Advanced Laboratory Practice.** Either term or throughout the year. Credit up to six hours a term. Prerequisite courses determined in each case by the professor in charge. Professor BANCROFT, Assistant Professor BRIGGS, and Messrs. ENGELDER, THOMPSON, and BRAY.

CHEMICAL MICROSCOPY

65. **Elementary Chemical Microscopy.** Repeated in second term, credit two hours. Prerequisite course 6 (or 7 and 12). Professor CHAMOT and Mr. COLE.

66. **Advanced Chemical Microscopy.** Second term, credit three or more hours. Prerequisite course 65. Professor CHAMOT and Mr. COLE.

SANITARY CHEMISTRY

69. **Elementary Sanitary Chemistry.** Throughout the year, credit five hours a term. Prerequisite course 6 (or 7 and 12) and course 32 (or 30, or 31). Professor CHAMOT, Mr. GEORGIA, and Mr. DIEFENBACH. Either term of this course may be elected independently of the other.

70. **Special Topics in Food Examination.** First term, credit two hours. Prerequisite second term of course 69. Mr. GEORGIA.

[72. **Microscopic Examination of Foods.** Second term, credit two or more hours. Prerequisite course 65. Professor CHAMOT and Mr. COLE.] Not given in 1917-18.

[75. **Special Topics in Water Examination.** Second term, credit two hours. Prerequisite course 69. Professor CHAMOT.] Not given in 1917-18.

78. **Advanced Sanitary Chemistry.** Throughout the year, credit two or more hours a term. Prerequisite course 69. Professor CHAMOT and Mr. GEORGIA.

80. **Toxicology.** Second term, credit two hours. Prerequisite course 30. Professor CHAMOT.

AGRICULTURAL CHEMISTRY

85. **Agricultural Chemistry.** Repeated in second term, credit four hours. Prerequisite course 1. Professor CAVANAUGH.

85a. **Agricultural Chemistry, Laboratory Course.** Repeated in second term, credit two hours. Prerequisite courses 1, 6, 85. Assistant Professor RICE and Mr. FROST. Designed to accompany course 85.

86. **Agricultural Chemistry, Advanced Course.** First term, credit three hours. Prerequisite course 85a. Professor CROSS.

87. **Agricultural Chemistry, Laboratory Course.** First term, credit three hours. Assistant Professor RICE. Designed to accompany course 86.

88. **Agricultural Chemistry, Laboratory Course.** Second term, credit three hours. Assistant Professor RICE. Designed to accompany course 89.

89. **Agricultural Chemistry, Advanced Course.** Second term, credit three hours. Prerequisite course 85a or 93. Professor CROSS.

90. **Advanced Agricultural Analysis.** Repeated in second term. Prerequisite courses 86 and 87 (or 88 and 89). Professor CAVANAUGH or Professor CROSS.

92. **Household Chemistry.** Second term, credit two hours. Prerequisite courses 1, 6, 32. Professor CROSS. Designed for students of home economics.

93. **Household Chemistry, Laboratory Course.** Second term, credit two hours. Assistant Professor RICE and Mr. FROST. Designed to accompany course 92.

SEMINARY

95. **Seminary.** Credit one hour. For seniors who are candidates for the degree B.Chem.

RESEARCH

96. **Research for undergraduate Students.** Throughout the year. Seniors who are candidates for the degree B.Chem. are required to elect four hours a term in research under the direction of some member of the staff of instruction.

BOTANY

1. **General Comparative Morphology of Plants.** First term, credit three hours. Professor ATKINSON and Mr. STORK.

2. **Elementary Plant Physiology.** Second term, credit three hours. Professor ATKINSON and Mr. STORK.

3. **Special Morphology, Taxonomy, and Ecology of the Higher Plants.** Second term, credit three hours. Professor ROWLEE and Mr. DUNLAP.

4. **Geographical Botany.** Second term, credit two hours. Professor ROWLEE and Mr. DUNLAP.

5. **Organography and Identification of the Higher Plants.** First term, credit three hours. Prerequisite course 3. Professor ROWLEE and Mr. DUNLAP.

7. **Taxonomy and Phylogeny of Angiosperms.** Second term, credit three hours. Professor ROWLEE.

8a. **Plant Cytology.** First term, credit three hours. Prerequisite courses 1 and 2. Professor ROWLEE and Mr. DUNLAP.

8b. **Comparative Histology of Plants.** Second term, credit three hours. Prerequisite course 8a. Professor ROWLEE and Mr. DUNLAP.

[9a. **Dendrology.** First term, credit four hours. Course 5 may advantageously precede. Professor ROWLEE and Mr. ———. Open to graduates.] Not given in 1917-18.

[9b. **Xylology.** Second term, credit four hours. Courses 8b and 9a may advantageously precede this course. Professor ROWLEE and Mr. ———. Open to graduates. Not given in 1917-18.

[10. **Comparative Morphology and Embryology.** Throughout the year, credit three hours a term. Prerequisite courses 1 and 2 or 3. Professor ATKINSON and Mr. STORK. Open to graduates.] Not given in 1917-18.

11. **Mycology.** Throughout the year, credit four hours a term. Prerequisite courses 1 and either 2 or 3. Professor ATKINSON and Mr. STORK. Open to graduates.

[12. **Taxonomy of the Pteridophytes, Bryophytes, and Algæ.** Throughout the year, credit three hours a term. Mr. ———. Open to graduates.] Not given in 1917-18.

13. **Research in Morphology and Embryology.** Prerequisite course 10, except by special permission. Professor ATKINSON and Mr. STORK. Open to graduates.

14a. **General Taxonomic Survey of the Fungi.** First term or throughout the year, credit four hours a term (less with special permission). Prerequisite course 11, except by special permission. Professor ATKINSON and Mr. STORK. Open to graduates.

14b. **Research in Morphology of the Fungi.** Throughout the year, credit four hours a term. Professor ATKINSON and Mr. STORK. Open to graduates.

16. **Research in Taxonomy and Phylogeny of the Agiosperms.** Prerequisite courses 7 and 8, except by special permission. Professor ROWLEE. Open to graduates.

17. **Research in Comparative Histology and Cytology.** Prerequisite courses 8a and 8b. Professor ROWLEE. Open to graduates.

18. **Seminary in Embryology, Mycology, Physiology, etc.** Credit one hour. Professor ATKINSON.

19. **Seminary in Comparative Histology and Taxonomy of the Angiosperms.** Credit one hour. Professor ROWLEE.

BIOLOGY

BIOLOGY, ENTOMOLOGY, LIMNOLOGY, AND NATURE STUDY

The following courses in the College of Agriculture are likewise considered as regular courses, in the College of Arts and Sciences: courses 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 19, 20, 21, 27-32, 50, 59, 60, 79; also course 1 in the Farm (field work only, credit one hour). See pages 000-000.

ZOOLOGY

1. **General Zoology.** First term, credit five hours. Assistant Professor REED, and Messrs. SHADLE, FLAGG, and CARNES.

1a. **Elements of Zoology.** Second term, credit three hours. Assistant Professor REED and Mr. SHADLE. For Veterinary students only.

[2. **Morphology of Invertebrates.** Throughout the year, credit three hours a term. Assistant Professor REED, and Messrs. SHADLE, and GAMBLE.] Not given in 1917-18.

3. **Comparative Anatomy of Vertebrates.** Throughout the year, credit three hours a term. Assistant Professor REED and Mr. GAMBLE. Prerequisite course 1 or 5.

4. **Comparative Morphology and Phylogenesis of Vertebrates.** Second term, credit three hours. Assistant Professor REED. Prerequisite, course 1 or 5, embryology (may accompany or precede), and any one of the following: course 3, 12, or medical human anatomy.

5. **Systematic Vertebrate Zoology and Ecology.** Throughout the year, credit three hours a term. Assistant Professor WRIGHT and ———, ———.

6. **Field Ornithology.** Second term, credit three hours. Assistant Professor ALLEN and Mr. HUBBARD. Intended for students not taking course 5.

7. **Ichthyology. Advanced Systematic and Field Zoology.** Second term, credit three hours. Assistant Professor WRIGHT. Prerequisite course 5.

[8. **Herpetology.** Second term, credit three hours. Assistant Professor WRIGHT.] Not given in 1917-18.

[9. **Advanced Ornithology.** First term, credit three hours. Prerequisite course 5 or 6. Assistant Professor ALLEN. Not given in 1917-18.

10. **Mammalogy.** First term, credit three hours. Assistant Professor WRIGHT.

11. **Economic Ornithology and Mammalogy.** First term, credit three hours. Should be preceded by course 6 or Zoology 5; presupposes an elementary knowledge of botany and entomology. Assistant Professor ALLEN.

12. **Mammalian Anatomy.** Second term, credit three hours. Assistant Professor REED and Mr. GAMBLE.

13. **Advanced Work and Research.** Throughout the year.

14. **Seminary in Systematic Vertebrate Zoology.** Throughout the year, credit one hour a term. Assistant Professor WRIGHT.

PHYSIOLOGY AND BIOCHEMISTRY

3. **Elementary Human Physiology.** Repeated in second term, credit three hours. Professor SIMPSON, Assistant Professor DRESBACH, and assistants.

6. **Laboratory Work in Physiology.** Repeated in second term, credit two or more hours. Professor SIMPSON, Assistant Professor DRESBACH, and assistants.

7. **Seminary.** Second term, credit one hour.

8. **Advanced Work and Research in Physiology.** Throughout the year. Professor SIMPSON, Assistant Professor DRESBACH, and Assistants.

14. **Elementary Biochemistry.** First term, credit three hours. Prerequisite chemistry 32 or the equivalent. Assistant Professor SUMNER and Messrs. HILL and BODANSKY.

14a. **Laboratory Work in Biochemistry.** First term, credit two hours. Open to those who are taking or have taken course 14. Assistant Professor SUMNER and Messrs. HILL and BODANSKY.

17. **Special Chapters in Biochemistry.** First term, credit one hour. Prerequisite course 14, or chemistry 31, or the equivalent. Assistant Professor SUMNER.

18. **Biochemistry for Medical Students.** Second term, credit two hours. Prerequisite chemistry 32 or its equivalent. Assistant Professor SUMNER and Messrs. HILL and BODANSKY.

18a. **Laboratory Work in Biochemistry.** Second term, credit three hours. Prerequisite chemistry 32. Assistant Professor SUMNER and Messrs. HILL and BODANSKY.

20. **Advanced and Research Work in Biochemistry.** Throughout the year. Assistant Professor SUMNER.

ANATOMY

21. **Elementary Human Anatomy.** Second term, credit three hours. Professor KERR and Mr. DAVIS. Not intended for students preparing for medicine.

22. **Anatomical Methods.** First term, credit three hours. Prerequisite Biology 1 or Zoology 1. Professor KERR and instructors.

23. **Elementary Anatomy for Students of Physical Education.** First term, credit three hours. Professor KERR and Mr. DAVIS. Should be preceded by Biology 1 and preceded or accompanied by Physiology 3 and Anatomy 21.

HISTOLOGY AND EMBRYOLOGY

1. **The Tissues: Histology and Histogenesis.** First term, credit four hours. No prerequisite, but previous work in biology (zoology and botany) or physiology is recommended. Professor KINGSBURY and assistants.

2. **The Organs: Histology and Development.** Second term, credit four hours. Prerequisite course 1 or the equivalent. Professor KINGSBURY and assistants. A continuation of course 1.

3. **Special Histology and Technique.** First term, credit two hours. Prerequisite courses 1 and 2, or 1 and 4, or the equivalent. Mr. KINGERY.

4. **Embryology of Vertebrates.** Second term, credit four hours. Prerequisite course 1 or the equivalent. Lectures or recitations, Professor KINGSBURY.

5. **The Nervous System and Organs of Special Sense: Histology and Development.** Second term, credit two hours. Prerequisite course 1 or the equivalent. Professor KINGSBURY and Mr. ———.

7. **Advanced Histology and Embryology.** Throughout the year, credit three or more hours a term. Prerequisite courses 1, 2, 3, or the equivalent. Professor KINGSBURY and Mr. KINGERY.

8. **Seminary.** Throughout the year, credit one hour. Prerequisite courses 1 and 2, or 4; may be taken with course 3 or 7.

GEOLOGY**GENERAL GEOLOGY**

1. **Elementary Geology.** Repeated in second term, credit three hours. Professor RIES, and Messrs. GREENLAND and ELSTON.

PHYSICAL GEOGRAPHY

2. **Elementary Physical Geography.** Throughout the year, credit three hours a term. Assistant Professor VON ENGELN, and Messrs. ELSTON and ———.

3. **Geography of North America.** Throughout the year, credit two hours a term. Prerequisite an elementary knowledge of physical geography, preferably course 2. Assistant Professor VON ENGELN.

[4. **Geography of Europe.** First term, credit two hours. Prerequisite course 2 or the equivalent. Assistant Professor VON ENGELN.] Not given in 1917-18.

5. **Glaciers and Glaciation.** Second term, credit three hours. Prerequisite course 2 or, with permission, course 1. Assistant Professor VON ENGELN and Mr. ELSTON.

6. **Commercial Geography.** First term, credit two hours. Assistant Professor VON ENGELN.

8. **Advanced Physiography, Experimental and Research Work.** Throughout the year, For students with requisite preparation. Assistant Professor VON ENGELN and Mr. ELSTON. Credit variable.

9. **Seminary.** Throughout the year, credit two hours a term. For upperclassmen and graduate students with requisite preparation. Assistant Professor VON ENGELN.

Meteorology and Climatology. See Announcement of the College of Agriculture.

MINERALOGY AND PETROGRAPHY

11. **Elementary Mineralogy.** Repeated in second term, credit three hours; if taken after course 12, credit two hours. Prerequisite Chemistry 1. Professor GILL and Mr. SMITH.

12. **Crystallography.** Repeated in second term, credit three hours; if taken after course 11, credit two hours. Prerequisite Chemistry 6 or 7, and Physics 1. Professor GILL and Mr. SMITH.

13. **Mineralogy.** Second term, credit three hours; if taken after course 11, credit two hours. Prerequisite course 12. Dr. ———.

14. **Blowpipe Determination of Minerals.** First term, credit one hour. Prerequisite course 11 or 13 and Chemistry 6 or 7. Professor GILL and Mr. SMITH.

15. **General Lithology.** Second term, credit one hour. Prerequisite courses 1 and 11. Professor GILL.

16. **Crystal Measurement and Drawing.** Second term, credit two hours. Prerequisite course 12. Professor GILL. Course 16 should be taken by students who intend to continue in course 17 or in course 20.

17. **Optical Determination of Minerals.** First term, credit three hours. Prerequisite courses 12, 13. Professor GILL.

18. **Petrography.** Second term, credit three hours. Prerequisite courses 12, 13, 17. Professor GILL.

19. **Seminary in Mineralogy and Crystallography.** Throughout the year, credit one hour a term. Prerequisite courses 12, 13, 17. Professor GILL.

20. **Advanced or Special Work in Mineralogy and Petrography.** Throughout the year. Prerequisite courses dependent on nature of work. Professor GILL.

PALEONTOLOGY AND STRATIGRAPHIC GEOLOGY

21. **Historic Geology.** Second term, credit three hours. Prerequisite course 1 or its equivalent. A course in invertebrate zoology is also desirable. Professor HARRIS.

22. **Stratigraphic Geology.** Throughout the year, credit three hours a term. Prerequisite courses 1 and 21 or their equivalent. Professor HARRIS.

23. **Geologic Mensuration.** First term, credit two hours. Prerequisite Geology 1 and 21, or their equivalent, and spherical trigonometry. Professor HARRIS and Mr. OLSSON.

24. **Invertebrate Paleontology.** Credit two hours each term. Prerequisite a three hour course in biology. Professor HARRIS and Mr. OLSSON.

25. **Paleontology and Stratigraphic Geology and Research.** Course 1 and Biology 1 or their equivalent must be taken before or with this work. Professor HARRIS and Mr. OLSSON.

ECONOMIC GEOLOGY

30. **Building Stones and Clay Products.** First term, credit two hours. Professor RIES, and Messrs. BEAN, and ———.

31. **Engineering Geology.** Throughout the year, credit three hours a term. Required of civil engineering students. Open to others only by special permission. Professor RIES, Assistant Professor SOMERS, and Mr. TEAS.

32. **General Economic Geology.** Throughout the year, credit three hours a term. For first term, prerequisite course 1 or equivalent; second term, prerequisite courses 1 and 11, or their equivalent. Professor RIES and Assistant Professor SOMERS.

33. **Geologic Examination of Mineral Deposits.** Second term, credit two hours. Prerequisite courses 31 or 32. Assistant Professor SOMERS.

34. **Mining of Mineral Deposits.** Two or three hours a term as the student desires to elect. Assistant Professor SOMERS.

35. **Clay Investigation.** Prerequisite courses Geology 1 or 31 and Chemistry 1 or its equivalent. Professor RIES.

36. **Advanced or Special Work in Economic Geology.** Throughout the year. Prerequisite courses dependent on the nature of the work. Professor RIES and Assistant Professor SOMERS.

37. **Economic Geology Seminary.** Throughout the year. Professor RIES. Prerequisite course 32.

39. **Field Work in Mining Geology.** Credit three hours. Professor RIES and Assistant Professor SOMERS. Required of students of mining engineering.

MILITARY SCIENCE AND TACTICS

1. **Practical and Theoretical Military Training.** Throughout the year. Every male student, a candidate for a baccalaureate degree, who is required to take five, six, seven, eight or more terms in residence, must take, in addition to the scholastic requirements for the degree, one, two, three, or four terms respectively in the Department of Military Science and Tactics. See page 174.

2. **Elective Military Training.** Throughout the year, credit two hours a term. Prerequisite course 1, or its equivalent.

PHYSICAL EDUCATION

In preparation for the courses described below, students should take in the first two years Chemistry 1, Physics 2, Biology 1 or Botany, Zoology 1 or 5, Physiology 3, and Anatomy 21.

10. **Principles of Physical Education.** For juniors. Throughout the year, credit three hours a term. Professor YOUNG, Dr. ———, Dr. MATZKE, and Miss ATKINSON.

11. **Hygiene, Personal and Public.** Repeated in second term, credit two hours. Professor YOUNG, Dr. ———, Dr. MATZKE.

12. **Physical Diagnosis.** For juniors and seniors. Second term, credit two hours. Dr. ——— and Dr. MATZKE.

13. **Principles of Physical Education.** For seniors. Throughout the year, credit three hours a term. Professor YOUNG and Miss ATKINSON.

PHYSICAL TRAINING FOR MEN

1. **For Freshmen Excused from Drill.** Throughout the year, three periods a week. Mr. SPORE and assistants.

2. **For Sophomores Excused from Drill.** Throughout the year, three periods a week. Mr. SPORE and assistants.

PHYSICAL TRAINING FOR WOMEN

4. **For Freshmen.** Throughout the year, three periods a week. Miss CANFIELD and Miss FURCHGOTT.

5. **For Sophomores.** Throughout the year, three periods a week. Miss ATKINSON and Miss FURCHGOTT.

COLLEGE OF LAW

For detailed information concerning the work of the College of Law, candidates for admission to that college should consult the Announcement of the College of Law which will be sent gratis on application to the Secretary of the University.

FACULTY OF THE COLLEGE OF LAW

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President.
EDWIN HAMLIN WOODRUFF, LL.B., Dean of the Faculty and Professor of Law.
CHARLES TRACEY STAGG, LL.B., Professor of Law and Secretary of the College.
CHARLES KELLOGG BURDICK, A.B., LL.B., Professor of Law.
GEORGE GLEASON BOGERT, A.B., LL.B., Professor of Law. (Absent on leave.)
OLIVER LEROY MCCASKILL, Ph.B., J.D., Professor of Procedure.
HENRY WHITE EDGERTON, A.B., LL.B., Assistant Professor of Law.

WILLIAM MACOMBER, A.B., (of the Buffalo Bar, author of "The Fixed Law of Patents"), Lecturer on the Patent Laws of the United States.
JAMES WHITE PERSONS, LL.B., (Referee in Bankruptcy, Buffalo), Lecturer on the United States Bankruptcy Act.
JUDGE HARRINGTON PUTNAM, A.B., LL.D., (Justice of the New York Supreme Court, Brooklyn), Lecturer on the Law of Shipping and Admiralty.
LUCIUS WARD BANNISTER, A.B., LL.B., (of the Denver, Colo., Bar) Lecturer on Western Water Rights.

THE DEGREE OF BACHELOR OF LAWS

The undergraduate instruction for students in the College of Law leads to the degree LL.B., the requirement for which is the completion of one of the following curricula.

1. The curriculum of four years,* for students who have only the preparation afforded by high schools and preparatory schools.
2. The curriculum of three years, designed for college graduates or for those who have completed at least one year (beginning in 1919, two years) of college work.
3. The curriculum of six years, leading to the degree of A.B. and LL.B.

Candidates for a degree in the four-year course must take during the first two years three hours of physical training a week; the first year in the Department of Military Science and Tactics and the second year either in that department or in the Department of Physical Culture as they may elect. Candidates for a degree in the three-year course must take during their first year three hours a week of physical training and may elect to take it in either department. Women take all their work in the Department of Physical Culture. Drill and physical training are not required of college graduates.

For admission to the College of Law, see page 39; for tuition in the College of Law, see page 46.

Admission to Advanced Standing

Any person who, being entitled to enter the first year of the three-year law course, has been in regular attendance for at least one academic year of not less than eight months at another law school having a three-year course for its degree, will be admitted to the junior class, upon passing the examinations in the studies of the first year of the three-year law course. The work of the junior and senior years must be pursued in actual residence.

*In September, 1919, and thereafter, applicants will not be admitted to the four-year course.

Admission as Special Students

Applicants who are twenty-one years of age, may in the discretion of the Faculty, be admitted to the College as special students not candidates for a degree, provided they present the New York Regents' Law Student Certificate or a substantial equivalent. This privilege will be granted only upon written application specifying the age of the applicant and the amount of preparatory study or of previous law study, and accompanied, if practicable, with certificates from the preparatory school, law school, or attorney under whose direction such studies have been pursued. New York students will not be admitted as special students unless they present a Regents' Law Student Certificate. Applicants are advised to correspond with the Dean of the College before presenting themselves in person. Special students may be admitted as candidates for a degree if they satisfy the entrance requirements before the beginning of their second year in the College.

Admission of Students from Other Colleges of the University

Subject to the regulations of the college in which he is registered, and of the College of Law, a student from another college of the University may elect work in the College of Law; but he is not permitted to do so before the beginning of his junior year, except upon presentation of special reasons to the Dean of the Law Faculty. Work permitted to be taken in the College of Law may be counted towards the law degree.

For the admission of seniors from the College of Arts and Sciences, see page 95.

THE CURRICULUM OF FOUR YEARS

First or Freshman Year

- 2. **Torts (including Master and Servant.)** Three hours. Assistant Professor EDGERTON.
- Elementary Economics.** (Political Science 51). Three hours. Professor DAVENPORT.
- English History to 1509.** (History 31). First term. Three hours. Professor SWEET.
- English Constitutional History to the Sixteenth Century.** (History 33). Second term. Three hours. Prerequisite, History 31. Professor SWEET.
- Electives.** Subjects in the College of Arts and Sciences. Six or seven hours each term. All electives are subject to the approval of the Dean of the College of Law.

Second or Sophomore Year

- 1a. **Contract.** Four hours until the Spring recess. Professor WOODRUFF.
- [Courses 1a and 1b constitute a continuous course and registration must be for the entire year.]
- 1b. **Agency.** Four hours from the Spring recess. Professor WOODRUFF.
- 3. **Criminal Law and Procedure.** First term. Four hours. Professor BURDICK.
- 4. **Property I.** Three hours. Professor BOGERT.
- 5. **Common Law Pleading.** Second term. Four hours. Professor McCASKILL.
- 6. **Brief Making.** One hour. Professor STAGG.
- Electives.** Subjects in Arts and Sciences. Three to six hours each term. All electives are subject to the approval of the Dean of the College of Law.

Third or Junior Year

- 20. **Property II.** Second term. One hour. Professor BOGERT.
- 20a. **Sales.** Second term. Three hours. Professor BOGERT.
- 21. **Negotiable Paper.** Second term. Three hours. Professor BURDICK.
- 22. **Probate Law.** First term. Three hours. Professor STAGG.
- 23. **Equity Jurisdiction.** Three hours. Assistant Professor EDGERTON.
- 24. **Insurance.** Second term. Two hours. Professor WOODRUFF.
- 25. **Domestic Relations and the Law of Persons.** First term. Two hours. WOODRUFF.
- 26. **Evidence.** First term. Four hours. Professor McCASKILL.
- 28. **Code Pleading.** First term. Three hours. Professor McCASKILL.
- 29. **Civil Procedure.** Second term. Three hours. Professor STAGG.
- Electives.** [Not required.] Not to exceed three hours in Arts and Sciences for students whose

s second year work has been satisfactory.

Fourth or Senior Year

- 30. **Mortgages.** First term. Two hours. Professor STAGG.
- 31. **Suretyship.** First term. Two hours. Professor BURDICK.
- 32. **Law of Associations (Partnership and Private Corporations.)** Two hours. Assistant Professor EDGERTON.
- 33. **Quasi-Contracts.** First term. Two hours. Professor WOODRUFF.
- 34. **Law of Public Service and Carriers.** Second term. Three hours. Professor BURDICK.
- 35. **Practice Court.** Second term. Four hours. Professor MCCASKILL.
- 36. **Constitutional Law.** Second term. Three hours. Professor BURDICK.
- 37. **Civil Procedure.** First term. Two hours.
- 38. **Property III.** First term. Two hours. Professor BOGERT.
- 38a. **Trusts.** First term. Two hours. Professor BOGERT.
- 40. **Public Officers and Municipal Corporations.** Second term. Three hours. Professor STAGG.

THE CURRICULUM OF THREE YEARS

- First Year.** 1a. Contract; 1b. Agency; 2. Torts; 3. Criminal Law and Procedure; 4. Property I; 5. Common Law Pleading; 6. Brief Making.
- Second or Junior Year.** Same as Third Year of the Four-Year Curriculum.
- Third or Senior Year.** Same as Fourth Year of the Four-Year Curriculum.

THE CURRICULUM OF SIX YEARS IN ARTS AND SCIENCES AND LAW

Under the regulations of the College of Arts and Sciences a qualified senior may take all of his work in the College of Law, receiving the degree of A.B. at the end of the year, and at the same time completing the work of the first year of the three-year law course in the College of Law; by two additional years of residence in the College of Law, he will be able to satisfy the requirements for the degree LL.B.

PRACTICE DEPARTMENT

The curriculum of the College of Law is not confined to instruction in the principles of substantive law and of pleading and evidence. As far as possible the student is trained to apply these principles to the more common problems met with in practice. In the first year the student receives instruction in legal bibliography, the use of authorities, the actual finding and collating of authorities, and the preparation of briefs upon elementary subjects. This is given in the class room and by library practice. He is also instructed in the organization and jurisdiction of courts, state and federal, and the commencement of actions. An extended course in New York practice is given, as it is believed that a specific study of actual practice in one jurisdiction is better than a general survey of the rules common to a number of jurisdictions, but which do not alone afford an accurate knowledge of the practice actually existing in any. A course is also given in the practice of probate courts, and in the last term of the senior year a practical course in conveyancing.

CORNELL LAW QUARTERLY

This legal periodical, published by the Faculty and an Editorial Board of students of the College of Law, was established in 1915, and is issued in November, January, March, and May. The preparation by students of notes on recent cases for publication in the Quarterly affords valuable training in legal research and editorial work under the supervision of members of the Faculty.

SPECIAL COURSES OF LECTURES BEFORE THE COLLEGE OF LAW**ATTENDANCE REQUIRED OF JUNIORS AND SENIORS**

- The Federal Bankruptcy Act.** Ten lectures. [1917-18.] Mr. PERSONS.
 - Western Water Rights and Irrigation Law.** Ten lectures. [1917-18]. Mr. BANNISTER.
 - The Patent Laws of the United States.** Six lectures. [1918-19.] Mr. MACOMBER.
 - The Law of Shipping and Admiralty.** Six lectures. [1918-19.] Judge PUTNAM.
- Each of the above courses is given in alternate years.

OTHER LECTURES

Provision is also made for single lectures to be given from time to time upon topics of immediate legal interest. The Frank Irvine lectureship, established in 1913 by the Conkling Chapter of Phi Delta Phi, provides for one or more lectures each year. In 1916-17 the incumbent was John H. Wigmore, M.A., LL.B., LL.D., Dean of the Northwestern University Law School, who lectured on "A New Way to Teach Old Law." Many lectures by nonresidents are also given each year under the auspices of the University or some of its other colleges and are frequently of particular interest and value to students in the College of Law.

ELECTIVES IN THE COLLEGE OF ARTS AND SCIENCES

In addition to the courses that law students are required to take in the College of Arts and Sciences in their first year of the four-year curriculum, all other courses in the College of Arts and Sciences are open to law students, subject to the regulations of the College of Arts and Sciences and to the prior demands of the regular schedule of professional courses in the College of Law.

EXAMINATION AND CLASS STANDING

Examinations are held at the end of the term in the work of that term, and in September for the removal of conditions. The following grades are given upon examinations: A, excellent, B, good; C, fair; D, poor; Cond., failure to pass. AA may be given for a paper of exceptional excellence. A student failing for the first time to maintain the standard required for remaining in the college may be permitted, in the discretion of the faculty, to return the following year and repeat the entire work of the term during which the failure occurred; but a student who fails the second time will be permanently dropped. Detailed provisions with respect to examinations and class standing are stated in the Rules for the Guidance of Law Students issued on Registration Day of the first term.

For the Library of the College of Law, see page 164.

Certificate of Attendance. Each student who has been in regular attendance upon the College, whether entitled to a degree or not, may, on application to the Faculty, receive an official certificate of attendance, which states the time of his attendance, and, if desired, the measure of his attainments. The certificate of a year's satisfactory attendance required by the New York Bar examiners, implies not only regular attendance upon, but also the successful completion of the prescribed course of instruction for a full year (not less than ten hours a week). Students in the four year course will therefore receive no time certificate for the first year, but will after regular attendance and on the successful completion of that course receive a time certificate for three years.

SCHOLARSHIPS AND PRIZES

The **Boardman Senior Law Scholarship** and the **Fraser Scholarships** are awarded only to students in the College of Law. For these and for the various scholarships and prizes that are open to all of the students in Cornell University see pages 165-170.

THE MEDICAL COLLEGE

FACULTY OF MEDICINE IN NEW YORK CITY

- JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President of the University.
- WILLIAM M. POLK, M.D., LL.D., Dean and Professor of Clinical Surgery, Department of Gynecology.
- JEREMIAH S. FERGUSON, M.S., M.D., Secretary of the Faculty.
- FREDERIC S. DENNIS, A.B., M.D., F.R.C.S., Emeritus Professor of Clinical Surgery.
- NEWTON M. SHAFFER, M.D., Emeritus Professor of Orthopædic Surgery.
- W. GILMAN THOMPSON, Ph.B., M.D., Emeritus Professor of Medicine.
- LEWIS A. STIMSON, A.B., M.D., LL.D., Professor of Surgery.
- GEORGE WOOLSEY, A.B., M.D., Professor of Clinical Surgery.
- J. CLIFTON EDGAR, Ph.B., A.M., M.D., Professor of Obstetrics and Clinical Midwifery.
- JAMES EWING, A.M., Sc.D., M.D., Professor of Pathology.
- GRAHAM LUSK, Ph.D., Sc.D., F.R.S. (Edin.) Professor of Physiology.
- FRANK SHERMAN MEARA, A.B., Ph.D., M.D., Professor of Therapeutics.
- ROBERT ANTHONY HATCHER, Ph.G., M.D., Professor of Pharmacology.
- CHARLES R. STOCKARD, M.S., Ph.D., Professor of Anatomy.
- LEWIS A. CONNER, Ph.B., M.D., Professor of Medicine.
- THOMAS WOOD HASTINGS, A.B., M.D., Professor of Clinical Pathology.
- WILLIAM J. ELSER, M.D., Professor of Bacteriology.
- STANLEY R. BENEDICT, Ph.D., Professor of Chemistry.
- CHARLES L. GIBSON, A.B., M.D., Associate Professor of Surgery.
- HOMER F. SWIFT, M.D., Associate Professor of Medicine.
- JOSEPH E. WINTERS, M.D., Professor of Clinical Medicine, Department of Pediatrics.
- CHARLES L. DANA, A.M., M.D., LL.D., Professor of Clinical Medicine, Department of Neurology.
- GEORGE THOMSON ELLIOT, A.B., M.D., Professor of Clinical Medicine, Department of Dermatology.
- FREDERICK WHITING, A.M., M.D., Professor of Clinical Surgery, Department of Otolaryngology.
- EDWARD L. KEYES, jr., A.B., Ph.D., M.D., Professor of Clinical Surgery, Department of Urology.
- ROBERT G. REESE, Ph. G., M. D., Professor of Clinical Surgery, Department of Ophthalmology.
- OTTO H. SCHULTZE, A. M., M.D., Professor of Medical Jurisprudence.
- ALFRED S. TAYLOR M.D., Professor of Operative Surgery.
- GEORGE G. WARD, jr., M.D., Associate Professor of Clinical Surgery, Department of Gynecology.
- ALEXANDER LAMBERT, A.B., Ph.B., M.D., Professor of Clinical Medicine.
- CHARLES E. NAMMACK, Ph.B., M.D., LL.D., Professor of Clinical Medicine.
- JOHN A. HARTWELL, Ph.B., M.D., Assistant Professor of Surgery and Professor of Clinical Surgery.
- IRVING S. HAYNES, Ph.B., M.D., Professor of Clinical Surgery.

- WILLIAM B. COLEY, A.B., A.M., M.D., Professor of Clinical Surgery.
- JOHN ROGERS, A.B., Ph.D., M.D., Professor of Clinical Surgery.
- HARMON SMITH, A.B., M.D., Professor of Clinical Surgery, Department of Laryngology and Rhinology.
- CHARLTON WALLACE, M.D., Professor of Clinical Surgery, Department of Orthopedic Surgery.
- HOWARD LILIENTHAL, M.D., Professor of Clinical Surgery.
- LEWIS G. COLE, M.D., Professor of Roentgenology.
- RICHARD WEIL, M.D., Professor of Experimental Medicine.
- JOHN C. TORREY, A.B., Ph.D., Professor of Hygiene.
- FOSTER KENNEDY, M.D., Associate Professor of Clinical Medicine, Department of Neurology.
- JAMES C. JOHNSTON, A.B., M.D., Assistant Professor of Clinical Medicine, Department of Dermatology.
- WILLIAM C. THRO, A.M., M.D., Assistant Professor of Clinical Pathology.
- EUGENE F. DUBOIS, M.D., Assistant Professor of Medicine.
- WALTER W. PALMER, B.S., M.D., Assistant Professor of Medicine.
- WALTER L. NILES, M.D., Assistant Professor of Medicine.
- JAMES MORLEY HITZROT, A.B., M.D., Assistant Professor of Clinical Surgery, Department of Surgery.
- CARL J. WIGGERS, M.D., Assistant Professor of Physiology.
- J. F. GUDERNATSCH, Ph.D., Assistant Professor of Anatomy.
- WILLIAM H. SHELDON, M.D., Assistant Professor of Clinical Medicine, Department of Medicine.
- MALCOLM GOODRIDGE, M.D., Assistant Professor of Therapeutics.
- BURTON J. LEE, A.B., M.D., Assistant Professor of Clinical Surgery.
- PERCY R. TURNURE, A.M., M.D., Assistant Professor of Clinical Surgery.
- CHARLES NORRIS, M.D., Assistant Professor of Pathological Anatomy.
- FRANK M. HUNTOON, M.D., Assistant Professor of Bacteriology.
- HORACE W. FRINK, M.D., Assistant Professor of Neurology.
- HAROLD C. BAILEY, M.D., Instructor in Obstetrics.
- DAVID P. BARR, A.B., M.D., Instructor in Medicine.
- BENJAMIN S. BARRINGER, A.B., M.D., Instructor in Clinical Surgery, Department of Urology.
- DAVID N. BARROWS, A.B., M.D., Instructor in Clinical Surgery, Department of Gynecology.
- FENWICK BEEKMAN, M.D., Instructor in Operative Surgery and Assistant in Clinical Surgery.
- JOSEPH C. BÖCK, Chem.E., Ph.D., Instructor in Chemistry.
- KENNETH BULKLEY, M.D., Instructor in Clinical Surgery.
- WALTER H. BRUNDAGE, M.D., Instructor in Medicine.
- RUSSELL L. CECIL, M.D., Instructor in Medicine and Assistant in Clinical Pathology.
- ROBERT CHAMBERS, A.M., Ph.D., Instructor in Anatomy.
- ARTHUR F. COCA, M.D., Instructor in Immunology.
- CARY EGGLESTON, M.D., Instructor in Pharmacology.
- ELSIE S. L'ESPERANCE, M.D., Instructor in Pathology.
- CHARLES E. FARR, M.D., Instructor in Surgery.
- LILLIAN K. P. FARRAR, A.B., M.D., Instructor in Clinical Surgery, Department of Gynecology.

JAMES BELDEN GERE, M.D., Instructor in Neuro-Pathology.
 JOHN C. A. GERSTER, M.D., Instructor in Operative Surgery.
 J. H. GLOBUS, A.B., M.D., Instructor in Anatomy.
 J. P. HOGUET, M.D., Instructor in Surgery.
 EDWARD W. HOLLADAY, M.D., Instructor in Clinical Surgery, Department of Gynecology.
 ARTHUR L. HOLLAND, M.D., Instructor in Clinical Medicine.
 HENRY WIRT JACKSON, M.D., Instructor in Clinical Pathology.
 NANCY JENISON, M.D., Instructor in Medicine.
 JAMES H. KENYON, B.S., M.D., Instructor in Chemical Surgery.
 EDWARD MILTIMORE, M.D., Instructor in Medicine.
 CHARLES V. MORRILL, A.M., Ph.D., Instructor in Anatomy.
 E. OSTERBERG, Instructor in Chemistry.
 GEORGE PAPANICOLAU, Ph.D., M.D., Instructor in Anatomy.
 HAROLD E. PARDEE, M.D., Instructor in Medicine.
 HAROLD F. PIERCE, Ph.B., Instructor in Physiology.
 JOHN H. RICHARDS, M.D., Instructor in Clinical Pathology and in Medicine.
 JOSEPH C. ROPER, M.D., Instructor in Clinical Medicine, Department of Pediatrics.
 HAROLD E. SANTEE, A.B., M.D., Instructor in Operative Surgery and Assistant in Clinical Surgery.
 HANS J. SCHWARTZ, M.D., Instructor in Clinical Pathology and Clinical Instructor in Medicine, Department of Dermatology.
 MONTGOMERY H. SICARD, B.S., M.D., Instructor in Therapeutics.
 HARRY VAN NESS SPAULDING, M.D., Instructor in Operative Surgery.
 JOSEPH M. STEINER, B.S., M.D., Instructor in Roentgenology.
 RALPH G. STILLMAN, M.D., Instructor in Clinical Medicine.
 BENJAMIN MORGAN VANCE, A.B., M.D., Instructor in Surgical Pathology.
 GEORGE W. WHEELER, M.D., Instructor in Bacteriology.
 HARVEY C. WILLIAMSON, M.D., Instructor in Obstetrics.
 JAMES WORCESTER, M.D., Instructor in Clinical Surgery.

Clinical Instructors

C. O. CHENEY, M.D., Clinical Instructor in Medicine, Department of Psychiatry.
 ARTHUR H. CILLEY, M.D., Clinical Instructor in Surgery, Department of Orthopedic Surgery.
 ARTHUR E. HOAG, M.D., Clinical Instructor in Surgery, Department of Surgery.
 HOWARD S. JECK, Ph.B., M.D., Clinical Instructor in Surgery, Department of Urology.
 GEORGE B. MCAULIFFE, A.B., M.D., Clinical Instructor in Surgery, Department of Otology.
 CHARLES HALPIN NAMMACK, A.B., M.D., Clinical Instructor in Medicine.
 CLARENCE P. OBENDORF, M.D., Clinical Instructor in Medicine, Department of Neurology.
 B. SAMUELS, M.D., Clinical Instructor in Surgery, Department of Ophthalmology.
 WILLIAM SHANNON, A.B., M.D., Clinical Instructor in Medicine, Department of Pediatrics.
 WILLIAM L. SOULE, A.B., M.D., Clinical Instructor in Anæsthesia.
 RICHMOND STEPHENS, M.D., Clinical Instructor in Surgery, Department of Orthopedic Surgery.

ABRAHAM STRACHSTEIN, M.D., Clinical Instructor in Surgery, Department of Urology.

ANNA TJOMSLAND, A.B., M.D., Clinical Instructor in Anæsthesia.

WILLIAM D. TYRRELL, M.D., Clinical Instructor in Medicine, Department of Pediatrics.

GEORGE W. VANDEGRIFT, A.M., M.D., Clinical Instructor in Surgery, Department of Ophthalmology.

LUCIUS A. WING, B.S., M.D., Clinical Instructor in Surgery, Department of Surgery.

W. W. WRIGHT, M.D., Clinical Instructor in Medicine, Department of Psychiatry.

Assistants

EDWARD MCPHERSON ARMSTRONG, M.D., Clinical Surgery.

H. V. ATKINSON, M.Sc., Physiology.

A. B. BERNHEIM, Chemistry.

RICHARD W. BOLLING, M.D., Clinical Surgery.

JACK V. BOHRER, B.S., M.D., Clinical Surgery.

CHARLES S. B. CASSASSA, A.B., M.D., Pathological Anatomy.

SUMNER EVERINGHAM, A.B., Clinical Surgery.

GUILFORD S. DUDLEY, A.B., M.D., Clinical Surgery.

SAMUEL LEVINE, M.D., Medicine.

THERESA LEVY, A.B., Chemistry.

W. WALLACE GAVER, M.D., Roentgenology.

HENRY MULLER, A.B., M.D., Pathology.

THOMAS A. MULCAHY, M.D., Clinical Assistant in Surgery, Department of Otology.

ALFRED RAHE, Hygiene.

JESSIE M. RAHE, Experimental Medicine.

M. E. VAN FLEET, M.D., Clinical Assistant in Medicine, Department of Neurology.

H. MURAYAMA, Preparateur in Anatomy.

JOHN P. PETERS, M.D., Medicine.

EMILY J. SEAMON, M.D., Experimental Medicine.

Lecturers

MAX EINHORN, M.D., Lecturer on Diseases of the Stomach.

JOHN T. MACCURDY, M.D., Lecturer on Clinical Medicine, Department of Psychiatry.

FACULTY OF MEDICINE AT ITHACA

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President of the University.

ABRAM T. KERR, B.S., M.D., Professor of Anatomy and Secretary of the Medical College at Ithaca.

SIMON HENRY GAGE, B.S., Emeritus Professor of Histology and Embryology.

WILLIAM RIDGELEY ORNDORFF, A.B., Ph.D., Professor of Organic Chemistry.

BENJAMIN FREEMAN KINGSBURY, Ph.D., M.D., Professor of Histology and Embryology.

SUTHERLAND SIMPSON, D.Sc., M.D., F.R.S.E., Professor of Physiology.

JAMES BATCHELLER SUMNER, A.M., Ph.D., Assistant Professor of Biochemistry.

MELVIN DRESBACH, M.S., M.D., Assistant Professor of Physiology.
SAMUEL ARTHUR MAHOOD, B.S., A.M., Instructor in Chemistry.
HUGH McMILLAN KINGERY, A.B., A.M., Instructor in Histology and Embryology.
HENRY KENNEDY DAVIS, A.B., A.M., Instructor in Anatomy.
ROLAND HURDON HILL, Instructor in Biochemistry.
CHARLES ETHAN ALLEN, A.B., Assistant in Histology and Embryology.
WILLIAM A. ADAMSON, Assistant in Chemistry.
WILLIAM A. DOUGLASS, Assistant in Chemistry.
WILLIAM MALCOLM STOBBS, A.B., Assistant in Anatomy.
ROBERT SQUIER GUTSELL, A.B., Assistant in Histology and Embryology.
JOHN EDWARD SUTTON, A.B., Assistant in Anatomy.
HENRY BRUNER SUTTON, A.B., Assistant in Anatomy.
JOHN STEPHENS LATTA, B.S., Assistant in Histology.
GAYLORD KELL COOKE, Student Assistant in Histology.
GERTRUDE A. JOHNSON, M.S., Assistant in Histology.
JOSEPH ALMA DYE, A.B., Assistant in Physiology.
STANLEY ROSS BURLAGE, Student Assistant in Physiology.
AARON BODANSKY, Assistant in Biochemistry.

THE MEDICAL COLLEGE

The Cornell Medical College was founded in 1898. It comprises two divisions, one of which is in New York City, the other in Ithaca. The work of the whole curriculum of four years is given in New York City; the work of only the first year is given in Ithaca. Men may take the first year of the curriculum in New York City or in Ithaca as they may elect; women are required to take the first year in Ithaca.

BUILDINGS, LABORATORIES, AND HOSPITAL FACILITIES IN NEW YORK CITY

The main building of the Medical College in New York City, comprising the Medical School and Dispensary, is situated on First Avenue from 27th to 28th Streets.

The Loomis Laboratory, which serves the purpose of instruction in connection with the laboratories in the main building of the College, is organized as a research laboratory with special departments in bacteriology, physiological chemistry, experimental medicine, and pharmacology.

The College Dispensary, located in the main building, is intimately connected with the laboratory and research facilities of the College.

The New York Hospital. One-half of the medical, surgical, and pathological services of this hospital are assigned to the Medical College for the advancement of its teaching and research.

The Bellevue Hospital. The second of the four divisions of this hospital is at the disposal of the faculty of the Medical College for medical instruction.

The Neurological Institute. By courtesy of the Institute, certain work is offered to third and fourth year students in the Medical College.

Manhattan State Hospital, Ward's Island. Through the courtesy of the authorities of this hospital, the Professor of Psychiatry in the Medical College is enabled to offer in its wards clinical instruction.

Thanks to the generosity of Dr. James Douglas the Memorial Hospital has recently received a large endowment for the study, treatment, and research of cancer and allied diseases, on the condition that the said Hospital devote itself exclusively to such work and also on the further condition that the Council of the Cornell University Medical College shall name the medical and surgical staff of the Hospital (subject, however, to the approval of the Board of Managers of the Hospital) and shall also approve the five medical members of the said Board of Managers and nominate their successors as from time to time vacancies occur in these positions.

Stimson Hall, the building of the Ithaca Division of the Medical College, is situated on the campus, and is a part of the general group of University buildings.

ADMISSION TO THE MEDICAL COLLEGE

Applications for admission to the Medical College are entertained from the following class of candidates.

1. Graduates of approved colleges or scientific schools.
2. Seniors in good standing in approved colleges or scientific schools upon condition that their faculty will permit them to substitute the first year in the Cornell University Medical College for the fourth year of their college course, and will confer upon them the bachelor's degree upon the satisfactory completion of the year's work.*

*No student under this clause is permitted to enter the second year of the Medical curriculum without the bachelor's degree obtained after at least three years of undergraduate work. This clause is intended to provide for those students who by specially directed or by specially proficient work accomplish the essential requirements for a B.S. or B.A. degree during three years of college residence.

3. Persons who give evidence by examinations that they have acquired an equivalent education to that signified by a bachelor's degree, and training sufficient to enable them to profit by the instruction offered in the Medical College.

All candidates for admission to the Cornell University Medical College must have at least such knowledge of physics, inorganic chemistry, and biology as may be obtained in college by a year's work in these subjects.

ADMISSION TO ADVANCED STANDING

Applicants for advanced standing must have met in full the requirements for admission, and must have already attended the legally required number of courses in an approved regular medical college. Applicants thus qualified may be admitted to the Cornell University Medical College under the following conditions:

1. A properly attested certificate of actual attendance at a registered medical college for the full number of years of medical study for which time credit is asked must be presented and approved.

2. A certificate showing that the student has satisfactorily completed in an approved medical college all of the required work of the years for which credit is asked must be presented and approved.

3. Subject credit will be granted on presentation and approval, by the heads of departments, of properly attested certificates stating the courses already completed in an approved medical college with the number of hours, didactic and laboratory, devoted thereto, together with the name of the instructor.

4. In the absence of the approved certificate called for in the preceding paragraph, subject credit for advanced standing will be granted only by examination.

ADMISSION TO SPECIAL COURSES

Graduates in medicine, or students who desire to pursue courses without credit toward graduation, are admitted to registration as special students, after approval by the head of the department conducting the course. Such special courses do not count in any way as part of the four-year course required of candidates for the degree of doctor in Medicine.

TUITION AND LABORATORY FEES

The tuition for regular students in the Medical College, in New York City and in Ithaca, is \$150 a year. Laboratory fees are \$35 a year for the first three years, and \$25 for the fourth year. There is a final examination fee of \$25. A registration fee of \$5 is required of all regular students.

Tuition for special students depends on the nature of the courses pursued. For details, the Secretary of the Medical College in New York City should be consulted. All special students must pay a registration fee of \$5.00.

The Academic Year. In the Medical College in New York City, the academic year is divided into three terms of eleven, ten, and eleven weeks respectively. In the Ithaca Division of the Medical College, the academic year consists of two terms of approximately equal length.

THE DEGREE OF DOCTOR OF MEDICINE

Instruction in the Medical College leads to the degree of Doctor of Medicine, the requirement for which is the completion of the following curriculum of four years.

First Year. Major subjects: anatomy, physiology, organic chemistry (including laboratory work), histology and embryology. Minor subjects: neuro-anatomy, physiological chemistry.

Second Year. Major subjects: physiology, materia medica and pharmacology. Minor subjects: medicine, surgery, obstetrics, bacteriology, anatomy, pathology, nutrition.

Third Year. Major subjects: applied pharmacology, pathology, obstetrics. Minor subjects: medicine, surgery, clinical pathology, pediatrics, neurology, pathological anatomy, urology, and applied anatomy.

Fourth Year. Major subjects: medicine, surgery, therapeutics, gynecology. Minor subjects: hygiene, ophthalmology, neurology, laryngology and rhinology, orthopedics, pediatrics, psychiatry, otology, dermatology.

Major and Minor Courses. Major courses are those in which a student completes his work in a given department or subject. Minor courses comprise the shorter laboratory and recitation courses.

Conditions allowed at the end of the first, of the second, and of the third year of the curriculum: one major and one minor; or two minor subjects. All conditions must, however, be successfully passed before admission to the succeeding year. If at the end of the fourth year any student fails to pass in not more than one major, or in two minor subjects, a re-examination in these subjects may be allowed within two weeks, and if the candidate is then successful the degree may be conferred. If the candidate fails to pass in any subject at this second examination, the work of the fourth year must be repeated. Before being readmitted to the fourth year the candidate may be required to pass a satisfactory examination in anatomy, physiology, chemistry, and materia medica, the major subjects of the preceding years.

The minimum age at graduation must be twenty-one years.

Students who have been admitted to advanced standing are required to pass at least the fourth year of the curriculum in residence at the Medical College in New York City.

A Medical Student's Certificate, issued by the Department of Education of the State of New York, is required of all students before graduation.

Candidates must have dissected at least one lateral half of the cadaver. They must, further, have taken the regular course of two weeks in practical obstetrics, and a certificate covering this course must be filed at the Secretary's office before registration for the final examinations, which begin about the last of May.

The degree will not be conferred upon any candidate who, without the special permission of the Faculty, absents himself from the public Commencement.

EXAMINATIONS AND ADVANCEMENT IN COURSE

1. **Advancement.** Students are advanced in course from one year to the next upon recommendations by heads of departments after examination in the work of the year, but examinations in major or minor subjects may, at the discretion of the head of the department, include all the work previously covered in the year or years preceding the examinations in question.

2. **Examinations.** Examinations for advancement in course, graduation, and admission to advanced standing are held at the close of the year, except that in each course extending through a part of the year only, the examination may be held at the close of the course.

A grade of 75 per cent. is required to pass; a student failing to pass is either conditioned or dropped.

A conditioned student may be re-examined at the discretion of the examiner.

A student who fails to pass all of his conditions shall not be allowed to register in the succeeding year of the curriculum, but shall be required to repeat the year.

A dropped student shall not be re-examined.

A student twice dropped from a given year of the curriculum shall not again be registered in this College.

No student of the first year who fails to reach an average standing of 65 per cent. and no student of the second year who fails to reach an average standing of 70 per cent. shall thereafter be admitted to this College.

PRIZES AND FELLOWSHIPS

The John Metcalfe Polk Prizes, the Dana Prizes, and the Whiting Prizes are open only to students in the Medical College. For these see pages 169-170.

The following fellowships are annually awarded by the Medical College in New York City. For details of award, the Announcement of the Medical College should be consulted.

Fellowships in Clinical Medicine, known as the **Charles L. Sheldon Fellowships**, each of the annual value of \$250 or \$200.

The **Fellowship in Pathology** of the annual value of \$250.

Diplomas of Licentiate of the Royal College of Physicians of London and Membership of the Royal College of Surgeons of England

Graduates of the Cornell University Medical College are admitted to the final examinations for diploma of Licentiate of the Royal College of Physicians of London and Membership of the Royal College of Surgeons of England.

Hospital Appointments

The students and graduates of the Cornell University Medical College are expected to compete for positions on the resident staff of New York, Bellevue, and other hospitals of the city.

THE COMBINED A.B. AND M.D. DEGREES

The two degrees, Bachelor of Arts and Doctor of Medicine, may be obtained in seven years. The first three years must be taken in the College of Arts and Sciences. The fourth year is the first year in the Medical College, and at the end of it the student receives the degree of A.B. The last three years are taken entirely in the College of Medicine at New York City.

COURSES OF INSTRUCTION IN NEW YORK CITY

ANATOMY

1. **Morphology.** Laboratory, 40 hours (elective), and demonstration conference, 22 hours (required). Professor STOCKARD and GUDERNATSCH.

2. **Embryology and Histology.** Laboratory course and lectures—250 hours. October to March. Required of all first year students. Professor GUDERNATSCH, Dr. CHAMBERS, and assistants.

3. **Neuro-Histology.** Laboratory, 66 hours. Required of all first year students. Dr. GLOBUS and assistants.

4. **Gross Anatomy of the Human Body.** The following are the courses required. I. The Upper Extremity; II. The Head and Neck; III. The Lower Extremity; IV. The Thorax; V. The Abdomen and Pelvis. Dissection, demonstrations, recitations, and examinations. Total laboratory hours, 288 (minimum). First and second terms of the first year.

Course VI. A Demonstration course. Optional for first year students.

Course VII. A study room course in live anatomy. Optional for first year students.

Course VIII. Dissection Review. A repetition of Courses I-V, giving an opportunity for advanced dissection. Optional for students of the second, third, or fourth year.

Course IX. Topographical Anatomy. Laboratory, 99 hours. Required during the first term of second year. Professor STOCKARD, Dr. MORRILL, and assistants.

Course X. Neuro-Anatomy. Laboratory, 22 hours. Required of all first year students. Dr. GLOBUS.

5. **Applied Anatomy.** First term of the second year. Laboratory, 60 hours.

6. **Elective Courses Preparatory to the Specialties.** Optional for students of the third and fourth years. Laboratory, 40 hours. Professors STOCKARD and instructors.

7. **Elective Courses for Advanced Students.** Course I. General Histology. Twenty lectures, March to June. Dr. GUDERNATSCH. Registration not later than January.

Course II. Phases of Histogenesis. Ten lectures from April to June. Dr. CHAMBERS.

Course III. The Anatomy of the Infant. Twenty lectures arranged for in advance. Professor STOCKARD.

Course IV. Developmental Arrests and Structural Deficiencies. Fifteen lectures. Professor STOCKARD.

Course V. Experimental Embryology. Twenty lectures with conferences considering the recent literature of the subject. March to June. Professor STOCKARD.

Course VI. Histological Seminar and Laboratory Work. Entire year. Professor GUDERNATSCH.

Course VII. Regional Anatomy. Three half days for two months. Dr. MORRILL and assistants.

Course VIII. Fourth Year Electives. Arranged to fit individual cases. Limited number of fourth year students.

8. **Anatomical Research.** Directed by members of the staff of instruction.

PHYSIOLOGY

Physiology. Third term of first year: four lectures a week, three laboratory periods, two conference quizzes, and a written review. First term of second year: lectures daily, three laboratory periods, conference quizzes and written reviews; fortnightly seminary.

Physiology, Experimental and Clinical. This course immediately follows the preceding course.

The staff in the Department of Physiology is composed of Professor LUSK, Assistant Professor WIGGERS, Mr. PIERCE, and Mr. ATKINSON.

CHEMISTRY

Organic Chemistry. First year. First term: two lectures a week. Second term: two lectures, one recitation, and two laboratory periods each week.

Physiological Chemistry. Third term: three lectures, two recitations, and three laboratory periods each week.

Chemical Pathology. Elective for fourth year.

Research in Chemistry. For advanced students by appointment.

The staff in the Department of Chemistry is composed of Professor BENEDICT, and Messrs. BÖCK and OSTERBERG.

PHARMACOLOGY AND MATERIA MEDICA

1. **Elementary Pharmacy, Toxicology, and Principles of Prescription Writing.** Twenty hours.

3. **Systematic Pharmacology.** Second and third terms: forty-five hours devoted to lectures, conferences and written reviews. Professor HATCHER.

4. **Laboratory in Pharmacology.** Ninety hours. Professor HATCHER and Dr. EGGLESTON.

5. **Research.** Elective. Under the supervision of members of the staff.

MEDICINE

Second Year. Recitations; physical diagnosis (96 hours).

Third Year. Recitations (two each week) and written reviews; lectures (twenty-two in number); weekly clinics in College Dispensary and Bellevue Hospital; medical diagnosis.

Fourth Year. Practical work in Bellevue and New York Hospitals.

Electives: Students of the fourth year.

I. Clinical clerkships, New York Hospital, one month, all day, five students.

II. Clinical clerkships, Bellevue Hospital, one month, all day. Five students.

III. Clinical electrocardiography and polygraphy, two afternoons a week for one month. Limited to eight students. Dr. PARDEE at New York Hospital.

IV. Course in advanced clinical pathology. Three afternoons a week for one month. Limited to five students. Dr. R. G. STILLMAN at New York Hospital.

V. Clinical Bacteriology and Methods of Examinations for Spermatozoa. Forty-eight hours.

VI. Serum Diagnosis and Tuberculin Diagnosis. Complement Fixation and Wassermann Reaction. Ninety-six hours.

VII. Exudates and Transudates. Twenty-four hours.

VIII. Serum, Vaccine and Tuberculin Therapy. Twenty-four hours.

IX. Examination of Feces. Twenty-four hours.

X. Clinical Chemistry. Thirty-six hours.

CLINICAL PATHOLOGY

Third Year. Laboratory, lectures, and recitations (110 hours).

Fourth Year. Laboratory and research by appointment.

Research for graduate students by appointment.

The staff in medicine and clinical pathology is composed of Professors CONNER, SWIFT, DUBOIS, PALMER, NILES, HASTINGS, LAMBERT, NAMMACK, WEIL, and Assistant Professors THRO, and SHELDON; Drs. EINHORN, BARR, PARDEE, MILTIMORE, JENISON, BRUNDAGE, RICHARDS, SCHWARTZ, STILLMAN, JACKSON, HOLLAND, and CECIL.

NEW YORK HOSPITAL, CORNELL MEDICAL DIVISION

Director, Professor of Medicine.

Hospital and University Appointees

Attending Physician, Professor of Medicine, Associate Attending Physician, Assistant Professor of Medicine. Associate Attending Physician, Instructor in Clinical Medicine. Clinical Pathologist, Instructor in Clinical Medicine. Pathologist, Professor of Bacteriology. Two Assistant Pathologists.

House Staff, Two Years Service

House Physician. First Senior Assistant Physician. Second Senior Assistant Physician. Junior Assistant Physician. Fellow in Medicine. Clinical Clerks (in sections of 10).

BELLEVUE HOSPITAL, CORNELL (SECOND MEDICAL) DIVISION**Hospital and University Appointees**

Director (Associate Professor of Medicine). Two Visiting Physicians (a. Professor of Therapeutics, Assistant Professor of Medicine). Three Assistant Visiting Physicians (a. Professor of Clinical Pathology; b. Assistant Professor of Medicine; c. Assistant Professor of Therapeutics). Five Adjunct Assistant Visiting Physicians. (a. Instructor in Medicine; b. Instructor in Clinical Pathology and Medicine; c. Instructor in Therapeutics; d. Instructor in Clinical Pathology; e. Instructor—on leave of absence—). One Clinical Pathologist. Five house Staff (a. Resident Physician, 1 year; b. House Physician, 2 years; c. Senior Physician, 2 years; d. Junior Physician, 2 years; e. Junior Physician, 1½ years; f. Physician, 1½ years)

This entire staff is on continuous duty throughout the college year, and during the summer season the service is maintained by a considerable portion of the staff.

In addition to the regular hospital appointees and internes, the Medical College supplies from its Department of Medicine for service in Bellevue Hospital a corps of laboratory assistants, research workers, and a special nurse.

GENERAL THERAPEUTICS

Didactic Lectures. One hour a week during the last term of the third year. Required of third year students. Professor MEARA.

Clinical Clerkships. In conjunction with the Department of Medicine this department offers to each student a "clerkship" in the wards of Bellevue Hospital for a continuous period of service, half of which time will be devoted especially to problems of medicine and half to those of therapeutics.

Recitations. Three hours a week for one-half term. March to May. Required of third year students. Dr. GOODRIDGE.

Section Work in the College Dispensary. For students in the fourth year. Dr. SICARD.

Research. For qualified students by appointment.

SURGERY

Second Year. Recitations; surgical examinations and diagnosis in the New York and Hudson Street Hospitals, clinics.

Third Year. Recitations; sections in the New York Hospital; lectures (thirty-three in number), weekly college clinic, first term; practical surgery at the New York Hospital (second and third terms). Operative Surgery.

Fourth Year. First term: lectures and clinics. Second term: clinical clerkships in Bellevue and New York Hospitals (six weeks). Third term; Electives.

The staff in this department is composed of Professors STIMSON, TAYLOR, WOOLSEY, ROGERS, COLEY, LILIENTHAL, and HAYNES; Associate Professor GIBSON; Assistant Professors HARTWELL, HITZROT, LEE, and TURNURE, and Drs. HOGUET, WING, HOAG, BEEKMAN, SANTEE, GERSTER, SPAULDING, BULKLEY, WORCESTER, KENYON, and VANCE.

HOSPITAL WORK

New York Hospital, Cornell (First Surgical) Division. The staff of instruction is composed of Associate Professor GIBSON, Assistant Professor HITZROT, and Dr. LEE.

Hudson Street Hospital. The staff of instruction is composed of Assistant Professor TURNURE and Drs. KENYON, BEEKMAN, and BOLLING.

Bellevue Hospital, Cornell (Second Surgical) Division. The staff of instruction is composed of Professors STIMSON, WOOLSEY, and ROGERS; Assistant Professor HARTWELL, and Drs. BULKLEY, and WORCESTER.

Surgical "Clerkships." Each student devotes his entire day for six weeks to the study of patients in the wards of New York and Bellevue hospitals.

OBSTETRICS

Instruction in this department is given during the second and third years of the curriculum. The work in obstetrics comprises: 1. recitations; 2. lectures; 3. obstetric clinics and conferences; 4. attendance upon cases of confinement; 5. manikin practice and section work; 6. obstetric histology, pathology, and bacteriology.

The staff of instruction in obstetrics is composed of Professor EDGAR and Drs. BAILEY and WILLIAMSON.

PATHOLOGY

1. **General Pathology.** Lectures, and museum and microscopical demonstrations, 70 hours.

2. **Special Pathology.** Lectures, and museum and microscopical demonstrations, 176 hours. Required in first and second terms of third year. Professor EWING and Drs. L'ESPERANCE, GERE, and MULLER.

3. **Pathological Anatomy.** Lectures and demonstrations, 84 hours. Required in the second and third years. Professor SCHULTZE and Dr. CASSASSA.

4. **Medico-legal Pathology.** Third and fourth years. Professor SCHULTZE.

5. **Autopsy Technics.** Fourth year. Section teaching at Morgue. Professors SCHULTZE and NORRIS, and Dr. CASSASSA.

Electives. Fourth year.

1. Pathological technique; 2. Junior diagnosis and general oncology; 3. Gynecological pathology; 4. Dermatopathology; 5. Neuropathology; 6. Surgical pathology; 7. Special pathology and study of groups of cases with the production of a thesis.

CANCER RESEARCH

Since 1904 the work of the Huntington Fund for Cancer Research has been located in the laboratories of Cornell University Medical College under the general direction of the Department of Pathology, and with the collaboration of heads of other departments. Later through the support of Dr. James Douglas, and the co-operation of the Board of Governors it has been extended to the laboratories of the Memorial Hospital. A laboratory building accommodating pathology, chemistry and physics has recently been erected.

The organization of this work includes: pathology, Prof. EWING; bacteriology, Prof. TORREY; immunology, Dr. COCA; experimental medicine, Prof. WEIL; chemistry, Prof. BENEDICT; and biology, Prof. STOCKARD.

Clinical studies in the diagnosis, natural history, and treatment of neoplastic diseases are conducted in the hospital by the members of the Staff. The general conduct of the ward service is in charge of Dr. WM. S. STONE, Assistant Director of Cancer Research. The Radium Department is in charge of Dr. H. H. JANEWAY, assisted in special fields by Drs. H. C. BAILEY, B. S. BARRINGER, and SAMUEL BROWN. The radium laboratory possesses three grams of radium metal, supplied by the National Radium Institute through Dr. JAMES DOUGLAS. The radium laboratory is in charge of Prof. WM. DUANE, Associate Consulting Physicist and Mr. GIACCHINO FAILLA, Physicist, and two assistants. The physics department also enjoys the services of Prof. J. S. SHEARER, Consulting Physicist.

BACTERIOLOGY

Laboratory work and lectures, 150 hours. Required in the second year. Professor ELSEA and Dr. HUNTOON.

NEUROLOGY

Second Year. Lectures and clinics. Prof. DANA.

Third Year. Clinics. Professor DANA.

Fourth Year. Clinics; sections; clinical clerkships.

The staff in this department is composed of Professor DANA, Associate Professor KENNEDY, and Assistant Professor FRINK, and Dr. OBERNDORF.

PSYCHIATRY

Third Year. Didactic lectures; clinical demonstrations and practical exercises.

The staff in this department is composed of Drs. MACCURDY and WRIGHT.

PEDIATRICS

Third Year. Weekly clinical lectures and sections.

Fourth Year. Weekly clinical lectures; clinical clerkships in the New York Hospital.

The staff in this department is composed of Professor WINTERS, and Drs. SHANNON, ROPER, and TYRRELL.

GYNECOLOGY

Second Year. Recitations and lectures.

Third Year. Section teaching.

Fourth Year. Elective.

The staff in this department is composed of Professor POLK, Associate Professor WARD, and Drs. HOLLADAY, FARRAR, and BARROWS.

UROLOGY

Third Year. Clinics in Bellevue Hospital, weekly during second term; lectures, ten in number first term; sections in the College Dispensary.

Fourth Year. Clinical clerkships.

The staff in this department is composed of Professor KEYES and Drs. BARRINGER, STRACHSTEIN, and JECK.

DERMATOLOGY

Third Year. Sections.

Fourth Year. Clinics.

The staff in this department is composed of Professors ELLIOTT, Assistant Professor JOHNSTON, and Dr. SCHWARTZ.

LARYNGOLOGY AND RHINOLOGY

Third Year. Sections.

Fourth Year. Didactic lectures and clinical exercises. Professor SMITH.

OPHTHALMOLOGY

Third Year. Sections and Clinics.

Fourth Year. Clinics. Professor REESE and Drs. SAMUELS and VANDEGRIFT.

OTOLOGY

Third Year. Sections in College Dispensary.

Fourth Year. Clinics. Professor WHITING and Dr. MCAULIFFE.

ORTHOPEDIC SURGERY

Third Year. Lectures, recitations and sections.

Fourth Year. Ward work in the Hospital for the Ruptured and Crippled. Professor WALLACE and Drs. CILLEY, and STEPHENS.

ROENTGENOLOGY

Third and Fourth Year. Lectures and demonstrations. Professor COLE and Dr. STEINER.

HYGIENE

Second Year. Laboratory and Field Work. Professor TORREY.

Fourth Year. Lectures. Professor TORREY.

MEDICAL JURISPRUDENCE

Fourth Year. Course of lectures from the standpoint of medico-legal autopsy (twenty-one hours). Professor SCHULTZE.

The clinical aspects of this subject are covered in the regular courses of study by several departments and by special lectures. Professor EDGAR, Professor HATCHER, and Dr. MACCURDY.

COURSES OF INSTRUCTION IN THE ITHACA DIVISION OF THE MEDICAL COLLEGE

ANATOMY

Courses 1, 2, 3, 5, and 6 are required of first year medical students.

1. **Anatomy of the Head and Neck.** First term. Credit four hours, twenty-two actual hours a week for seven weeks. Professor KERR, Mr. DAVIS, Mr. STOBBS and Mr. SUTTON. Laboratory work; dissection and conference.

2. **Anatomy of the Thoracic Walls and Viscera.** First term. Credit, one hour, twenty-two actual hours a week for two weeks. Professor KERR, Mr. DAVIS, Mr. STOBBS and Mr. SUTTON. Laboratory work; dissection and conferences.

3. **Anatomy of the Abdominal and Pelvic Walls and Viscera.** First term. Credit four hours, twenty-two actual hours a week for seven weeks. Professor KERR, Mr. DAVIS, Mr. STOBBS and Mr. SUTTON. Laboratory work; dissections and conferences.

5. **Anatomy of the Central Nervous System.** Second term. Credit, two hours, five actual hours a week. Professor KERR and Mr. DAVIS. Dissection with occasional demonstrations and recitations.

6. **Anatomy of the Living Body.** Second term. Credit one hour, two actual hours a week. Dr. KERR and Mr. DAVIS.

7. **Anatomy of the Upper Extremity.** First and second terms. Credit, two to three hours. Professor KERR and Mr. DAVIS. Laboratory work; dissection and conference.

8. **Anatomy of the Lower Extremity.** First and second terms. Credit, two to three hours. Professor KERR and Mr. DAVIS. Laboratory work; dissection and conference.

9. **Topographical Anatomy.** First and second terms. Credit, two to five hours. Prerequisite anatomy courses 1, 2, 3, 7, or 8. Professor KERR.

12. **Research in Anatomy.** For qualified students. First and second terms. Professor KERR.

HISTOLOGY AND EMBRYOLOGY

Courses 10, 10a, and 5 are required of students of medicine.

10. **Histology.** First term. Credit six hours. Professor KINGSBURY and Mr. KINGERY. Four laboratory periods and two lectures each week.

10a. **Histology.** First term. Credit, three hours. Professor KINGSBURY. Two laboratory periods and one lecture-conference each week.

5. **The Nervous System and Organs of Sense.** Second term. Credit, two hours. Professor KINGSBURY. Two laboratory periods with laboratory conferences and quizzes.

3. **Special Histology and Technique.** First term. Credit, three hours. Professor KINGSBURY and Mr. KINGERY. One recitation, demonstration, or lecture. Two laboratory periods by assignment.

7. **Advanced Work in Histology and Embryology.** First and second terms. Professor KINGSBURY and Instructors. Laboratory work, eight or more actual hours a week, with seminary. Prerequisite courses 10 and 3 and a reading knowledge of French and German.

8. **Seminary.** First and second terms. One hour each week.

DEPARTMENT OF PHYSIOLOGY AND BIOCHEMISTRY

1. **Physiology of the Cell, Muscle, Nerve, Heart and Circulation, Blood and Lymph, and Respiration.** First term. Credit, three hours. Professor SIMPSON, Assistant Professor DRESBACH, and assistants. Three lectures or recitations weekly with demonstrations.

2. **Physiology of Digestion, Excretion, Internal Secretion, Animal Heat, and Reproduction.** Second term. Credit, three hours. Professor SIMPSON, Assistant Professor DRESBACH, and assistants. Five lectures or recitations weekly for the first ten weeks of the term, with demonstrations and examinations.

4. **Experimental Physiology.** Second term. Credit, five hours. Professor SIMPSON, Assistant Professor DRESBACH, and assistants. Two six-hour laboratory periods a week.

5. **Physiology of the Nervous System and Special Senses.** Second term. Credit, two hours. Professor SIMPSON. Lectures, five weekly for the last six weeks of the term.

7. **Seminary.** Second term. Credit, one hour.

8. **Advanced Work and Research.** For qualified students, by appointment.

15. **General Biochemistry.** Second term. Credit, five hours. Two lectures or recitations and three three-hour laboratory periods weekly. Assistant Professor SUMNER, and Mr. HILL Mr. BODANSKY.

17. **Special Chapters in Biochemistry.** First term. Credit, one hour. Assistant Professor SUMNER. Lectures.

20. **Advanced Work and Research in Biochemistry.** First and second terms. Assistant Professor SUMNER.

Course 32. Required course. See page 87.

NEW YORK STATE VETERINARY COLLEGE

For detailed information concerning the work of the Veterinary College, candidates for admission to that college should consult the Announcement of the Veterinary College which will be sent gratis on application to the Secretary of the University.

FACULTY

- JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President of the University.
VERANUS ALVA MOORE, B.S., M.D., V.M.D., Professor of Comparative Pathology, Bacteriology, and Meat Inspection. Dean of the College.
JAMES LAW, F.R.C.V.S., Emeritus Professor of Principles and Practice of Veterinary Medicine.
SIMON HENRY GAGE, B.S., Emeritus Professor of Histology.
PIERRE AUGUSTINE FISH, D.Sc., D.V.S., D.V.M., Professor of Veterinary Physiology and Secretary of the Faculty.
GRANT SHERMAN HOPKINS, D.Sc., D.V.M., Professor of Veterinary Anatomy and Anatomical Methods.
WALTER LONG WILLIAMS, Professor of Obstetrics and Research Professor in Diseases of Dairy Cattle.
DENNIE HAMMOND UDALL, B.S.A., D.V.M., Professor of Veterinary Medicine and Hygiene.
EARL MAX PICKENS, D.V.M., Professor in Diagnosis.
HOWARD JAY MILKS, D.V.M., Professor of Materia Medica and Small Animal Clinic.
JAMES NATHAN FROST, D.V.M., Professor of Veterinary Surgery.
EARL SUNDERVILLE, D.V.M., Assistant Professor of Veterinary Anatomy.
CHARLES ERNEST HAYDEN, A.B., D.V.M., Assistant Professor of Veterinary Physiology.
FREDERICK KOENIG, D.V.M., Assistant Professor of Veterinary Medicine.
RAYMOND RUSSELL BIRCH, B.S., D.V.M., Superintendent of the Veterinary Experiment Station.
HENRY ASMUS, Assistant Professor of Horseshoeing.
WILLIAM EDWARD MULDOON, D.V.M., Assistant Professor of Materia Medica.
SAMUEL A. GOLDBERG, D.V.M., Assistant Professor of Pathology.
WALTER DENSLOW WAY, D.V.M., Instructor in Medicine.
• EARLE BUDD HOPPER, D.V.M., Instructor in Surgery.
WILLIAM ARTHUR HAGAN, D.V.M., Instructor in Pathology and Bacteriology.
CHARLES MILTON CARPENTER, D.V.M., Instructor in Obstetrics.
WILLIAM ARTHUR BILLINGS, Assistant in Diagnosis.
GAYLORD KELL COOKE, Assistant in Anatomy.
PAUL CONNOLLY, Assistant in Pathology.
-

- JAMES EDWARD CREIGHTON, A.B., Ph.D., LL.D., Dean of the Graduate School.
HENRY HIRAM WING, M.S. in Agr., Professor of Animal Husbandry.
BENJAMIN FREEMAN KINGSBURY, Ph.D., M.D., Professor of Histology and Embryology.
ARTHUR WESLEY BROWNE, M.S., Ph.D., Professor of Inorganic and Analytical Chemistry.

ELMER SETH SAVAGE, M.S.A., Ph.D., Professor of Animal Husbandry.

EDWARD LEAMINGTON NICHOLS, B.S., Ph.D., LL.D., Professor of Physics.

ERNEST GEORGE MERRITT, M.E., Professor of Physics. (Absent on leave.)

JOHN SANDFORD SHEARER, B.S., Ph.D., Professor of Physics. (Absent on leave.)

ROSWELL CLIFTON GIBBS, A.B., A.M., Ph.D., Assistant Professor of Physics.

THOMAS WHITNEY BENSON WELSH, A.B., Ph.D., Instructor in Inorganic Chemistry.

SAMUEL ARTHUR MAHOOD, B.Sc., M.A., Ph.D., Instructor in Organic Chemistry.

HUGH McMILLAN KINGERY, A.M., Instructor in Histology and Embryology.

JOHN S. LATTA, B.S., Assistant in Histology and Embryology.

Nonresident Lecturers for 1916-17

A. R. Ward.....	Washington, D. C.	C. J. Huson.....	Penn Yan
J. W. Harshberger..	Philadelphia, Pa.	W. G. Hollingworth.....	Utica
J. G. Wills.....	Albany	G. A. Knapp.....	Millbrook
J. W. Adams.....	Philadelphia, Pa.	W. H. Kelly.....	Albany

THE VETERINARY COLLEGE

Instruction in veterinary subjects has been a part of the work of Cornell University since its foundation. During the earlier years of the University, this instruction was in charge of the Department of Agriculture, and it was continued as a distinctive part of the work of the College of Agriculture when in 1888 that college was created as the successor of the Department of Agriculture.

The Veterinary College was established as a separate college of Cornell University in the year 1894, in accordance with an Act of the Legislature of the State of New York creating a State Veterinary College at Cornell University.

The Veterinary College as it exists to-day is supported by the State of New York, and is administered by Cornell University under the direction of a committee of its Board of Trustees known as the Veterinary College Council. In respect of all academic interests, the Veterinary College is an integral part of Cornell University.

For admission to the Veterinary College, see page 39; for tuition in the Veterinary College, see page 46.

THE DEGREE OF DOCTOR OF VETERINARY MEDICINE

The undergraduate instruction for regular students in the Veterinary College leads to the degree of Doctor of Veterinary Medicine, the requirement for which is the completion of one of the following curricula.

Since the beginning of the session 1916-17, students have been required to take the four-year course for the degree of Doctor of Veterinary Medicine.

CURRICULUM OF FOUR YEARS

(The first two years of this course will be given in 1917-18)

First Year

	No. of Course	Credit 1st Term	Credit 2d Term	Total of Actual Hours
Physics	2	5	—	80
Histology	6	2	4	200
Anatomy	1	3	—	448
"	2	1	—	
"	3	2	—	
"	4	—	6	
Physiology, Lectures	10	3	—	96
" Recitations	11	—	3	
Chemistry	1	—	6	144
Military Drill	1	—	—	96
		16	19	1064

Second Year

Anatomy	5	4	—	256
"	6	2	—	
Physiology, Recitations	12	2	—	32
" Lecture	13	—	2	32
" Laboratory	14	2	—	80
Pharmacology	20	2	—	32
"	20a	—	2	32
Materia Medica	21	2	—	80
General Pathology	40	4	—	112
Bacteriology	43	—	5	152
General Surgery	30	—	4	112
Physical Diagnosis	51	—	2	32
Zoology	1a	—	3	96
Military Drill		—	—	96

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Third Year

Consulting Clinic	34	1	1	
Small Animal Clinic	25	1	1	
Surgical Exercises	31	1	—	
Medicine	50	2	3	
Animal Husbandry	—	3	3	
Autopsies	—	1	1	
Special Surgery	32	5	—	
Special Pathology	41	2	2	
Parasitology	44	2	—	
Physical Diagnosis	—	1	—	
Diseases of Small Animals	22	—	2	
Infectious Diseases, Lectures	42	—	2	
" " Laboratory	—	—	1	
Surgical Anatomy	—	—	1	
Urine Analysis	15	—	1	

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Fourth Year

Materia Medica	23	2	—	
Surgical Clinic	33	2	2	
Ambulatory Clinic	53	2	2	
Small Animal Clinic	25	1	1	

	No. of Course	Credit 1st Term	Credit 2d Term	Total of Actual Hours
Consulting Clinic	34	1	1	
Embryology	—	2	—	
Horseshoeing	52	1	—	
Horseshoeing Exercises	57	—	1	
Medicine	—	3	2	
Immunity	—	2	—	
Botany	—	3	—	
Autopsies	—	1	1	
Meat Inspection	—	—	1	
Dairy Inspection	—	—	1	
Obstetrics	36	—	3	
Diseases of the Genital Organs	—	—	2	
Ophthalmology	55	—	1	
Hygiene	56	—	1	
		20	19	

REMAINDER OF CURRICULUM OF THREE YEARS

(To be discontinued after 1918)

Third Year

Urine Analysis	15	1	—	45
Diseases of Small Animals	22	—	2	30
Materia Medica and Therapeutics	23	2	—	30
Surgical Exercises	31	1	—	45
Special Surgery	32	4	—	60
Obstetrics	36	—	4	60
Infectious Diseases	42	—	2	30
Special Pathology	41	2	—	53
Meat and Dairy Inspection	48	—	1	15
Small Animal Clinic	25	1	1	90
Consulting Clinic	34	1	1	90
Surgical Clinic	33	2	2	180
Ambulatory Clinic	53	1	1	90
Medicine	50	5	5	150
		20	20	1022

For the Curriculum of Seven Years in Agriculture and Veterinary Medicine, see page 124.

SCHOLARSHIPS AND PRIZES

The Horace K. White Prizes; The Hollingworth Honorarium for Research; The Jane Miller Prize; and The James Gordon Bennett Prize are awarded to students in the Veterinary College. For these and for the scholarships and prizes that are open to all students of the University, see page 165.

Student Assistants. Three positions as student assistants are open to capable veterinary students in their senior year (salaries from \$125 to \$300 a year).

STUDY FOR PRACTITIONERS

Veterinarians who are legally authorized to practise at their places of residence will be admitted to any class in the College at any time and for such period as they may elect, without entrance examination. They will be entirely free to elect any studies that are being regularly taught at the time, and may enjoy all opportunities and facilities offered to regular students as long as these opportunities do not interfere with the instruction of the regular students.

No tuition will be required from licensed veterinarians practising in the State of New York.

COURSES OF INSTRUCTION

ANATOMY

1. **Comparative Osteology.** Three hours. First term. Lectures, W, 9. From September to February there will be six periods of laboratory work.
2. **Arthrology.** One hour. First term. Professor HOPKINS and Assistants.
3. **Myology and Abdominal Viscera.** Three hours. First term. Professor HOPKINS, Assistant Professor SUNDERVILLE and Assistants.
4. **Myology, Thoracic and Abdominal Viscera, Lymphatic System and Organs of Special Senses.** Five hours. Second term. Professor HOPKINS, Assistant Professor SUNDERVILLE, and Assistants.
5. **Blood Vessels and Nerves of the Arm and Leg.** Three hours. First term. Professor HOPKINS, Assistant Professor SUNDERVILLE and Assistants.
6. **Blood Vessels and Nerves of the Head; the Central Nervous System and Genital Organs.** Three hours. First term. Professor HOPKINS, Assistant Professor SUNDERVILLE, and Assistants.
7. **Surgical Anatomy.** Second term. Hours to be arranged. Professor HOPKINS, Assistant Professor SUNDERVILLE.
8. **Advanced Anatomy.** Two or more hours. Professor HOPKINS and Assistant Professor SUNDERVILLE.

PHYSIOLOGY

10. **The Physiology of the Nutrition and Secretion of the Domesticated Animals.** First term, credit three hours. Professor FISH.
11. **Physiology Recitations.** Second term, credit three hours. Professor FISH and Assistant Professor HAYDEN.
12. **Physiology Recitations.** First term, second year, credit two hours. Professor FISH and Assistant Professor HAYDEN.
13. **The Physiology of the Muscular and Nervous Systems.** Second term, second year, credit two hours. Assistant Professor HAYDEN.
14. **Physiological Laboratory.** Professor FISH, Assistant Professor HAYDEN, and Assistants.
15. **Urine Analysis.** Fifth term, three hours a week. Professor FISH, Assistant Professor HAYDEN, and Assistants.
16. **Advanced Physiology.** Five or more hours a week. Professor FISH and Assistants.

MATERIA MEDICA AND SMALL ANIMAL CLINIC

20. **Pharmacology.** First term. Professor MILKS.
- 20a. **Pharmacology.** A continuation of course 20. Second term.
21. **Materia Medica and Pharmacy Laboratory.** First term, five hours a week. Professor MILKS and Dr. MULDOON.
22. **Diseases of the Small Animals.** Second Term. Professor MILKS.
23. **Recitations in Materia Medica and Therapeutics.** First term. Professor MILKS.
24. **Advanced Work.** Five or more hours a week. Professor MILKS and Dr. MULDOON.
25. **Small Animal Clinic.** Six actual hours a week. Professor MILKS and Dr. MULDOON.

ZOOLOGY

- 1a. **Elements of Zoology.** Second term, credit three hours. Assistant Professor REED and Mr. SHADLE. Laboratory fee, \$3.00.

SURGERY

30. **General Surgery.** Second year, second term. Four recitations or laboratory periods a week. Assistant Professor FROST.
Prerequisite courses 1, 2, and 3 in anatomy, course 10 in physiology, course 6 in histology and embryology and course 40 in general pathology.
31. **Surgical Exercises.** Third year. First term. Assistant Professor FROST and Dr. CLARK.
32. **Special Surgery.** Third year. First term, four lectures or recitations a week. Assistant Professor FROST.
33. **Surgical Clinics.** Six actual hours or more a week throughout the third year. Assistant Professor FROST and Dr. CLARK. Prerequisites, courses 30 and 31.
34. **Consulting Clinic.** Six actual hours a week for three terms. Assistant Professor FROST and Dr. CLARK.

OBSTETRICS AND DISEASES OF BREEDING CATTLE, JURISPRUDENCE

35. **Jurisprudence.** A series of eight lectures. Second term, third year.
36. **Obstetrics and the Diseases of Breeding Animals.** Four lectures or recitations per week in the second term of the third year. Professor WILLIAMS. Prerequisite: Course 30.
- Research.**

COMPARATIVE PATHOLOGY, BACTERIOLOGY, AND MEAT INSPECTION

40. **General Pathology.** First term. Prerequisite, normal histology and at least one year's work in anatomy and physiology. Two recitations and five hours' laboratory work each week. Professors MOORE and PICKENS.
41. **Special Pathology.** Second term, second year; and first term, third year. Prerequisite course 40. Professor PICKENS and Dr. GOLDBERG.
42. **Pathology of Infectious Diseases.** Second term. Open to students who have taken courses 40 and 41, and have taken or are taking course 43. Two hours. Professor MOORE.
43. **Bacteriology.** Second term. Five hours. Open to students who have taken or are taking course 6 in microscopy. Professor MOORE and Assistant Professor ———.
(The lectures may be taken as a two hour course.)
- [44. **Parasites.** First term, two hours. Assistant Professor ———.] Not given in 1917-18.
45. **Research in Bacteriology and Pathology.** Laboratory work. Prerequisite courses 40 and 43. Professor MOORE, Professor PICKENS, and Assistant Professor ———.
46. **Laboratory Methods of Diagnosis.** Prerequisite courses 40 and 43. Professor PICKENS.
47. **Post Mortem Examinations.** Throughout the senior year by appointment. Students taking the four year course will have additional work consisting of histological and bacteriological examinations of material obtained at the autopsies. To these students two hours credit each term will be given. Professor PICKENS and Dr. GOLDBERG.
48. **Meat and Dairy Inspection.** One hour. Second term, third year. Professor MOORE.
49. **Seminary.** Throughout the year. Graduates and advanced students. Professors MOORE and PICKENS.

VETERINARY MEDICINE

50. **Veterinary Medicine, Principles and Practice.** Five lectures or recitations a week during the third year. Credit, five hours. Professor UDALL.
51. **Physical Diagnosis.** Second term. Credit, two hours. Assistant Professor F. F. KOENIG.
52. **Horseshoeing.** Second year, second term. Credit one hour. Assistant Professor F. F. KOENIG.
53. **Ambulatory Clinic.** Professor UDALL and Assistant Professor F. F. KOENIG.
55. **Ophthalmology.** Second year, second term. Assistant Professor F. F. KOENIG.
56. **Hygiene.** Second year, first term. Assistant Professor F. F. KOENIG.
57. **Horseshoeing Exercises.** Three actual hours a week, second year, second term. Credit one hour. Mr. ASMUS.

Library. For the Roswell P. Flower Library and for other library facilities see page 162.

THE COLLEGE OF AGRICULTURE

For detailed information concerning the work of the College of Agriculture, candidates for admission to that college should consult the Announcement of the College of Agriculture which will be sent gratis on application to the Secretary of the University.

Instruction in agricultural subjects has been a part of the work of Cornell University since its foundation. The Department of Agriculture, which had charge of this instruction during the earlier years of the University, was in 1888 succeeded by the College of Agriculture, which was in that year organized and established as a separate college of the University. In 1904 the College of Agriculture became, by an Act of the Legislature, the New York State College of Agriculture, and the equipment of the College of Agriculture of Cornell University along with the annual appropriations made by the University for the support of agricultural instruction, was employed and continued to be employed to strengthen and support the work of the New York State College of Agriculture.

The College of Agriculture as it exists today is in large part supported by the State of New York, and is administered by Cornell University under the direction of a committee of its Board of Trustees known as the Agricultural College Council. In respect of all academic interests, the College of Agriculture is an integral part of Cornell University.

The Federal Experiment Station at Cornell University was organized in 1887, and is in charge of the Dean of the College of Agriculture. The annual federal appropriation is devoted wholly to experimental work and research in the Departments of Plant Breeding, Soil Technology, and Entomology.

FACULTY

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President of the University.

ALBERT RUSSELL MANN, B.S.A., A.M., Dean of the College of Agriculture,
Director of the Experiment Station, and Director of Extension.

ISAAC PHILLIPS ROBERTS, M.Agr., Emeritus Professor of Agriculture.

JOHN HENRY COMSTOCK, B.S., Emeritus Professor of Entomology and General
Invertebrate Zoology.

HENRY HIRAM WING, M.S. in Agr., Professor of Animal Husbandry.

THOMAS LYTTLETON LYON, Ph.D., Professor of Soil Technology.

JOHN LEMUEL STONE, B.Agr., Professor of Farm Practice.

JAMES EDWARD RICE, B.S.A., Professor of Poultry Husbandry.

GEORGE WALTER CAVANAUGH, B.S., Professor of Chemistry in its Relations to
Agriculture.

GEORGE NIEMAN LAUMAN, B.S.A., Professor of Rural Economy.

HERBERT HICE WHETZEL, M.A., Professor of Plant Pathology.

ELMER O. FIPPIN, B.S.A., Extension Professor of Soil Technology.

GEORGE FREDERICK WARREN, Ph.D., Professor of Farm Management.

WILLIAM ALONZO STOCKING, JR., M.S.A., Professor of Dairy Industry.

WILFORD MURRY WILSON, M.D., Professor of Meteorology.

RALPH SHELDON HOSMER, B.S.A., M.F., Professor of Forestry.

JAMES GEORGE NEEDHAM, Ph.D., Professor of Entomology and Limnology.

ROLLINS ADAMS EMERSON, D.Sc., Professor of Plant Breeding.

HARRY HOUSER LOVE, Ph.D., Professor of Plant Breeding Investigations.

DONALD REDDICK, Ph.D., Professor of Plant Pathology.

EDWARD GERRARD MONTGOMERY, M.A., Professor of Farm Crops.

- GEORGE ALAN WORKS, B.Ph., M.S. in Agr., Professor of Rural Education.
- FLORA ROSE, B.S., M.A., Professor of Home Economics.
- MARTHA VAN RENSSELAER, A.B., Professor of Home Economics.
- WILLIAM ALBERT RILEY, Ph.D., Professor of Insect Morphology and Parasitology.
- JAMES ADRIAN BIZZELL, Ph.D., Professor of Soil Technology.
- GLENN WASHINGTON HERRICK, B.S.A., Professor of Economic Entomology and Entomologist of the Experiment Station.
- HOWARD WAIT RILEY, M.E., Professor of Rural Engineering.
- HAROLD ELLIS ROSS, M.S.A., Professor of Dairy Industry.
- HUGH CHARLES TROY, B.S.A., Professor of Dairy Industry.
- SAMUEL NEWTON SPRING, B.A., M.F., Professor of Silviculture.
- KARL MCKAY WIEGAND, B.S., Ph.D., Professor of Botany.
- WILLIAM HENRY CHANDLER, M.S. in Agr., Ph.D., Professor of Pomology.
- ARTHUR BERNHARD RECKNAGEL, B.A., M.F., Professor of Forest Management and Utilization.
- MERRITT WESLEY HARPER, M.S., Professor of Animal Husbandry.
- CYRUS RICHARD CROSBY, A.B., Extension Professor of Entomology.
- ELMER SETH SAVAGE, M.S.A., Ph.D., Professor of Animal Husbandry.
- KENNETH CARTER LIVERMORE, M.S. in Agr., Professor of Farm Management.
- EDWARD ALBERT WHITE, B.Sc., Professor of Floriculture.
- ALVIN CASEY BEAL, Ph.D., Professor of Floriculture.
- HERBERT ANDREW HOPPER, B.S.A., M.S., Extension Professor of Animal Husbandry.
- EDWARD SEWALL GUTHRIE, M.S. in Agr., Ph.D., Professor of Dairy Industry.
- MAURICE CHASE BURRITT, M.S. in Agr., Professor, and Vice Director of Extension.
- WILLIAM CHARLES BAKER, B.S.A., Professor of Drawing.
- MORTIER FRANKLIN BARRUS, Ph.D., Extension Professor of Plant Pathology.
- LEWIS JOSEPHUS CROSS, B.A., Ph.D., Professor of Chemistry in its Relations to Agriculture.
- OSKAR AUGUSTUS JOHANNSEN, A.M., Ph.D., Professor of General Biology.
- CLYDE HADLEY MYERS, Ph.D., Professor of Plant Breeding.
- BRISTOW ADAMS, B.A., Professor, and Editor and Chief of Publications.
- DICK J. CROSBY, M.S., Professor in Extension Service.
- ISA CARLTON KING, B.S.A., Professor of Farm Practice.
- CORNELIUS BETTEN, Ph.D., Professor, Secretary, and Registrar.
- GEORGE ABRAM EVERETT, A.B., LL.B., Professor of Extension Teaching.
- FREDERICK LLEWELLYN GRIFFIN, B.S., M.S., Professor of Rural Education.
- LEWIS KNUDSON, B.S.A., Ph.D., Professor of Botany.
- E. GORTON DAVIS, B.S., Professor of Landscape Art.
- RALPH WRIGHT CURTIS, M.S.A., Professor of Landscape Art.
- CLAUDE BURTON HUTCHISON, M.S. in Agr., Professor of Plant Breeding.
- RALPH WALDO REES, B.S., Extension Professor of Pomology.
- JACOB RICHARD SCRHAMM, A.B., Ph.D., Professor of Botany.
- HARRY OLIVER BUCKMAN, M.S.A., Ph.D., Professor of Soil Technology.
- RALPH HICKS WHEELER, B.S., Professor in Extension Service.
- WILLIAM FOSTER LUSK, B.Ph., M.S.A., Professor of Rural Education.
- JAMES ERNEST BOYLE, Ph.D., Extension Professor of Rural Economy.
- RALPH CLEMENT BRYANT, F.E., Manufacturers' Association Professor of Lumbering, Yale University. Third term, 1917.

- JAMES CHESTER BRADLEY, Ph.D., Assistant Professor of Systematic Entomology, Exchange Professor at University of California, 1917-18.
- JOHN BENTLEY, JR., B.S., M.F., Assistant Professor of Forest Engineering.
- GEORGE CHARLES EMBODY, Ph.D., Assistant Professor of Aquiculture.
- MRS. HELEN BINKERD YOUNG, B.Arch., Assistant Professor of Home Economics.
- MRS. ANNA BOTSFORD COMSTOCK, B.S., Assistant Professor of Nature-Study.
- HARRY MORTON FITZPATRICK, Ph.D., Assistant Professor of Plant Pathology.
- BYRON BURNETT ROBB, B.S. in Agr., M.S. in Agr., Assistant Professor of Rural Engineering.
- WALTER WARNER FISK, M.S. in Agr., Assistant Professor of Dairy Industry.
- VERN BONHAM STEWART, Ph.D., Assistant Professor of Plant Pathology.
- ANNETTE J. WARNER, Assistant Professor of Home Economics.
- ROYAL GILKEY, B.S.A., Assistant Professor in Extension Service, and Supervisor of Reading Course for the Farm.
- CHARLES TRUMAN GREGORY, Ph.D., Assistant Professor of Plant Pathology.
- LEX RAY HESLER, Ph.D., Assistant Professor of Plant Pathology.
- WILLIAM HOWARD RANKIN, Ph.D., Assistant Professor of Plant Pathology.
- EARL WHITNEY BENJAMIN, B.S. in Agr., M.S. in Agr., Ph.D., Assistant Professor of Poultry Husbandry.
- ARTHUR JOHNSON EAMES, A.B., A.M., Ph.D., Assistant Professor of Botany.
- JAMES KENNETH WILSON, B.S., Ph.D., Assistant Professor of Soil Technology.
- ELMER EUGENE BARKER, Ph.D., Assistant Professor of Plant Breeding.
- EDWARD MOWBRAY TUTTLE, B.S. in Agr., A.B., Assistant Extension Professor of Rural Education.
- ROBERT MATHESON, M.S. in Agr., Ph.D., Assistant Professor of Economic Entomology and Assistant Entomologist of the Experiment Station.
- BLANCHE EVANS HAZARD, A.B., M.A., Assistant Professor of Home Economics.
- DAVID LUMSDEN, Assistant Professor of Floriculture.
- JOHN HALL BARRON, B.S.A., Assistant Extension Professor of Farm Crops.
- GAD PARKER SCOVILLE, B.S. in Agr., Assistant Extension Professor of Farm Management.
- ARTHUR AUGUSTUS ALLEN, Ph.D., Assistant Professor of Ornithology.
- LEONARD AMBY MAYNARD, A.B., Ph.D., Assistant Professor of Animal Husbandry.
- FOREST MILO BLODGETT, Ph.D., Assistant Extension Professor of Plant Pathology.
- MIRIAM BIRDSEYE, B.A., Assistant Extension Professor of Home Economics.
- HOWARD EDWARD BABCOCK, Ph.B., Assistant Professor in Extension Service and State Leader of County Agents.
- EDWARD RILEY KING, B.S., Assistant Professor of Entomology.
- FRANK ELMORE RICE, A.B., Ph.D., Assistant Professor of Chemistry in its Relations to Agriculture.
- LESTER WHYLAND SHARP, B.S., Ph.D., Assistant Professor of Botany.
- JOHN CLARENCE MCCURDY, B.S., C.E., Assistant Professor of Rural Engineering.
- CLARENCE A. BOUTELLE, Assistant Extension Professor of Animal Husbandry.
- CHARLES HOWARD ROYCE, M.S.A., Assistant Extension Professor of Animal Husbandry.
- GEORGE HARRIS COLLINGWOOD, B.S., A.M., Assistant Extension Professor of Forestry.
- MONTGOMERY ROBINSON, Litt.B., B.S., Assistant Professor in Extension Service.
- WESLEY WORTH WARSAW, B.S. in A.E., Assistant Extension Professor of Soil Technology.

PAUL WORK, A.B., M.S. in Agr., Acting Professor of Vegetable Gardening.

EDWIN COOPER VANDYKE, B.S., M.D., Assistant Professor of Entomology, University of California, Exchange Professor 1917-18.

BERTHA E. TITSWORTH, B.S., Assistant Extension Professor of Home Economics.

OTIS FREEMAN CURTIS, A.B., Ph.D., Assistant Professor of Botany.

THOMAS JOSEPH MCINERNEY, M.S. in Agr., Assistant Professor of Dairy Industry.

EUGENE DAVIS MONTILLON, B.Arch., Assistant Professor of Landscape Art.

JUAN ESTEVAN REYNA, E.E., Assistant Professor of Drawing.

LESLIE EUGENE HAZEN, B.S. in Agr., M.E., Assistant Professor of Farm Mechanics.

EARL LONG OVERHOLSER, M.A., Assistant Professor of Pomology.

ARTHUR JOHN HEINICKE, B.S.A., M.A., Ph.D., Assistant Professor of Pomology.

OLNEY BROWN KENT, B.S., Ph.D., Assistant Professor of Poultry Husbandry.

HENRY WILLIAM SCHNECK, B.S., M.S.A., Assistant Professor of Vegetable Gardening.

KARL JOHN SEULKE, M.S.A., Ph.D., Assistant Professor of Animal Husbandry.

LOUIS MELVILLE MASSEY, A.B., Ph.D., Assistant Professor of Plant Pathology.

ELLIS LORE KIRKPATRICK, B.S.A., Assistant Professor of Vegetable Gardening.

BEULAH BLACKMORE, B.S., Assistant Professor of Home Economics.

PAUL J. KRUSE, A.B., Ph.D., Assistant Professor of Rural Education.

BERNARD ALBERT CHANDLER, B.S., M.F., Assistant Professor of Forest Utilization.

IVAN CLAUDE JAGGAR, B.S., Assistant Professor of Plant Pathology.

WARREN KENDALL BLODGETT, 2d, A.B., Assistant Extension Professor of Farm Mechanics.

LAYTON S. HAWKINS, B.A., Specialist in Agricultural Education, Lecturer in Rural Education.

GEORGE WALTER TAILBY, JR., B.S.A., Instructor, and Stockman in Animal Husbandry.

CECIL CALVERT THOMAS, A.B., M.A., Instructor in Botany.

EARLE VOLCART HARDENBURG, B.S., M.S. in Agr., Instructor in Farm Crops.

RICHARD ALAN MORDOFF, B.S. in Agr., Instructor in Meteorology.

OLIVER WESLEY DYNES, M.S. in Agr., Instructor in Farm Crops.

ALBERT EDMUND WILKINSON, B.S., M.S., Extension Instructor in Vegetable Gardening.

JAMES LEWIS STRAHAN, B.S. in Agr., M.S. in Agr., Instructor in Farm Structures.

CASS WARD WHITNEY, B.S., Instructor in Extension Service.

ALLAN CAMERON FRASER, B.S., Instructor in Plant Breeding.

LUA ALICE MINNS, B.S., Instructor in Floriculture.

GEORGE CORNELL SUPPLEE, M.S.A., Instructor in Dairy Industry.

ANNA ELIZABETH HUNN, B.S., Instructor in Home Economics.

WILLIAM THOMAS CRAIG, Instructor in Plant Breeding.

HAROLD DEANE PHILLIPS, A.B., B.S. in Agr., Instructor in Rural Economy.

DEVÖE MEADE, B.S., Instructor in Animal Husbandry.

EDWARD GARDNER MISNER, B.S., Instructor in Farm Management.

ARTHUR MERLE BESEMER, B.S., Instructor in Dairy Industry.

ARCHIE BYRON DANN, B.S., Instructor in Poultry Husbandry.

EDWIN SLEIGHT HAM, B.S., Instructor in Animal Husbandry.

WINFRED ENOS AYRES, Extension Instructor in Dairy Industry.

ALBERT SCOTT KENERSON, B.S., M.S. in Agr., Instructor in Vegetable Gardening.
CLARK LEONARD THAYER, B.Sc., Instructor in Floriculture.
RALPH SYLVANUS MOSELEY, Extension Instructor in Poultry Husbandry.
LEWIS MERWIN HURD, Extension Instructor in Poultry Husbandry.
WILLIAM IRVING MYERS, B.S., Instructor in Farm Management.
CEDRIC HAY GUISE, B.S., M.F., Extension Instructor in Forestry.
EMIL VOLZ, B.Sc., Instructor in Floriculture.
GILBERT WARREN PECK, B.S., Extension Instructor in Pomology.
ALBERT REIFF BECHTEL, B.S., A.M., Instructor in Botany.
JAMES MARSHALL BRANNON, B.A., M.A., Instructor in Botany.
FRANK BURKETT WANN, A.B., Instructor in Botany.
WALLACE LARKIN CHANDLER, B.S., M.S., Instructor in Parasitology.
MARY FRANCES HENRY, A.B., Instructor in Home Economics.
CLARA LOUISE GARRETT, B.S., Instructor in Drawing.
CLARENCE VERNON NOBLE, B.S., Instructor in Farm Management.
SARAH LUCILE BREWER, B.S., Instructor in Home Economics.
CHARLES PARSONS CLARK, B.S., Extension Instructor in Farm Management.
ANSON WRIGHT GIBSON, B.S., Assistant Farm Superintendent.
ANNA JANE HANCY, A.B., M.A., Instructor in Botany.
EDWIN FRASER HOPKINS, B.S., Instructor in Plant Pathology.
LOUIS ARTHUR ZIMM, B.S., Instructor in Plant Pathology.
WALTER GERNET KRUM, Extension Instructor in Poultry Husbandry.
HOWARD CAMPBELL JACKSON, B.S., Instructor in Dairy Industry.
JULIA GLEASON, Instructor in Home Economics.
HARRY HAZELTON KNIGHT, Pg.B., B.S., Instructor in Entomology.
ELMO HAMILTON LOTT, B.S., B.S.A., Instructor in Extension Service.
CLARIBEL NYE, B.S., Extension Instructor in Home Economics.
MORTIMER DEMAREST LEONARD, B.S., Extension Instructor in Entomology.
WALTON I. FISHER, Instructor in Plant Breeding.
WINIFRED MOSES, B.S., Instructor in Home Economics.
HELEN CANON, B.A., B.S., Extension Instructor in Home Economics.
HARRY E. KNOWLTON, B.S., Instructor in Botany.
GEORGE ROBINSON PHIPPS, B.S., Instructor in Extension Service.
GUSTAVE FREDERICK HEUSER, B.S., Instructor in Poultry Husbandry.
CLARENCE HAMILTON KENNEDY, A.B., M.A., Instructor in Limnology.
EDWINA MARIA SMILEY, A.B., Instructor in Plant Pathology.
EDWARD HENRY DUSHAM, A.B., M.S., Instructor in Biology.
MRS. EDITH FLEMING BRADFORD, B.S., Instructor in Home Economics.
SARA BUCHANAN HUFF, Instructor in Home Economics.
GEORGE CLAYTON DUTTON, Extension Instructor in Dairy Industry.
BENJAMIN P. YOUNG, B.S., Instructor in Entomology.
PETER WALTER CLAASSEN, M.A., Instructor in Natural History.
ROY GLEN WIGGANS, B.S.A., M.S.A., Instructor in Farm Crops.
MARSHALL EVARTS FARNHAM, B.S., Instructor in Floriculture.
FRANK P. BUSSELL, B.A., Extension Instructor in Plant Breeding.
ROY LEWIS GILLETT, B.S., Instructor in Farm Management.
MRS. JESSIE A. BOYS, B.S., Instructor in Home Economics.
LAURENCE JOSEPH NORTON, B.S., Instructor in Farm Management.

- RALPH WALDO GREEN, B.S., Instructor, and Assistant Chief of Publications.
GLADYS SMITH, B.S., Instructor in Home Economics.
JOHN PHINEUS BENSON, B.S., Instructor in Botany.
RALPH SIMPSON NANS, B.S., Instructor in Botany.
WALTER CONRAD MUENSCHER, A.B., M.A., Instructor in Botany.
HARRY EARL BREMER, B.S., Instructor in Dairy Industry.
CHARLES CHUPP, A.B., Ph.D., Instructor in Plant Pathology.
WILLIAM ALONZO WHITING, B.S., Instructor in Dairy Industry.
BENJAMIN DUNBAR WILSON, M.S., Instructor in Soil Technology.
GERTRUDE ELIZABETH DOUGLAS, A.B., AM., Ph.D., Instructor in Botany.
HARVEY ELLISON GAYMAN, B.S., Instructor in Rural Education.
HAZEL BUELL BENNETT, B.S., Instructor in Rural Education.
LAWRANCE ERICKSON, A.B., Instructor in Botany.
PAUL BERWIG SCHUMM, B.S., Instructor in Landscape Art.
FRANCES FLEMINGTON KELLEY B.A., Instructor in Home Economics.
NANCY HILL MCNEAL, Ph.B., Extension Instructor in Home Economics.
OLIN WHITNEY SMITH, B.S., Assistant Registrar.
ADA ELJIVA GEORGIA, Assistant in Natural History.
EMMONS WILLAM LELAND, B.S.A., Superintendent of Field Experiments in Soil Technology.
WARD BENJAMIN WHITE, A.B., Assistant in Dairy Industry.
CHARLES EDWARD HUNN, Assistant in Plant Propagation.
MARY ELLEN HILL, B.S., Assistant in Biology.
RALPH WALDO EMERSON COWAN, B.S., Assistant in Dairy Industry.
ERNEST GUSTAF ANDERSON, B.Sc., Assistant in Plant Breeding.
CHARLES LORING ALLEN, B.A., Assistant in Animal Husbandry.
THOMAS BREGGER, B.S., Assistant in Plant Breeding.
CHESTER COLUMBUS DEMAREE, A.B., Assistant in Botany.
CLYDE C. HAMILTON, B.S., M.S., Assistant in Natural History.
VERNON R. HABER, B.S., M.A., Assistant in Biology.
VICTOR FERDINAND TAPKE, B.S., Assistant in Plant Pathology.
KENNETH CLARK FOX, B.S., Assistant in Poultry Husbandry.
WALTER SPRAGUE FROST, B.S., Assistant in Agricultural Chemistry.
LAURA FLORENCE, B.Sc., M.A., Assistant in Entomology.
BENJAMIN HARRISON SMITH, A.B., Assistant in Plant Pathology.
HENRY VROOM DEMOTT, B.S. in Agr., M.S. in Agr., Assistant in Pomology.
WALTER W. WELLHOUSE, M.A., Assistant in Entomology.
CLAUDE WILLARD LEISTER, B.S., Assistant in Ornithology.
CARL PETTY BLACKWELL, B.S., M.A., Assistant in Farm Crops.
RAYMOND STRATTON SMITH, B.S., B.S. in Agr., M.S., Assistant in Soil Technology.
R. J. MORGAN, Assistant in Soil Technology.
CLARKE BERNARD LOUDENSLAGER, B.S., Assistant in Extension Service.
THOMAS LYSONS MARTIN, B.A., Assistant in Soil Technology.
ELBERT ERNEST CONKLIN, JR., B.S., Assistant in Vegetable Gardening.
ASA EMANUEL MCKINNEY, A.B., A.M., Assistant in Agricultural Chemistry.
ELEANOR HILLHOUSE, B.S., Assistant in Home Economics.
LUTHER BANTA, B.S., Assistant in Cooperative Junior Project Work in Delhi.*
IVAN WRIGHT, A.B., M.S., Assistant in Rural Economy.

ALICE CORNELIA VAN SCOY, B.S., Assistant in Home Economics.
WILLIAM J. BAERG, B.A., Assistant in Entomology.
GORDON KENNEDY MIDDLETON, B.S., Assistant in Farm Crops.
WARD CHARLES JENSEN, B.S., Assistant in Farm Crops.
MERLE PERROTT MOON, B.S.A., Assistant in Dairy Industry.
HUGH IRWIN MACOMBER, B.S., Assistant in Poultry Husbandry.
FRANK LATTA FAIRBANKS, M.E., Assistant in Farm Mechanics.
CHARL LOUIS RONX DE WET, B.S., Assistant in Soil Technology.
HELEN SEAMON, A.B., Assistant in Botany.
FREEMAN WEISS, B.S., Assistant in Botany.
FORREST CLIFTON BUTTON, B.S., Assistant in Dairy Industry.
ERNEST CHARLES YOUNG, B.S., Assistant in Animal Husbandry.
GEORGE HAINES, B.S., Assistant in Animal Husbandry.
HELEN ELIZABETH MURPHY, B.S., Assistant in Biology.
RUTH ISIDOR METZGER, A.B., Assistant in Pomology.
EARL ALBERT LOUDER, B.S., Assistant in Agricultural Chemistry.
MRS. RITA HOPE BALLARD EAMES, B.A., Assistant in Botany.
CHARLES DUDLEY BOHANNAN, B.A., Assistant in Rural Education.

ADMISSION, TUITION, AND ACADEMIC YEAR

For admission to the College of Agriculture, see page 39.

For tuition in the College of Agriculture, see page 46.

In addition to the two terms into which, in the other colleges of the University, with the exception of the Medical College in New York City, the academic year is divided, the College of Agriculture has provided, and first put into effect in 1914, a third term extending from June through September. The work of the third term is intended for upperclassmen and for graduate students, and no student is allowed to register in the third term if he has not completed the required work of the freshman and of the sophomore year in the College of Agriculture.

THE DEGREE OF BACHELOR OF SCIENCE

The undergraduate instruction for regular students in the College of Agriculture leads to the degree of Bachelor of Science, the requirements for which are residence for eight terms and the completion of one hundred and twenty hours of required and elective work. For the requirements in military science and tactics and in physical culture, see pages 174-175.

Required Subjects. Freshman year: English, course 1, 8 hours; introductory inorganic chemistry, course 1, 6 hours; biology, course 1, 3 hours; zoology, course 1, 6 hours; botany, course 1, 6 hours; the natural history of the farm, course 1, 1 hour. Sophomore year: geology, course 1, 3 hours (optional for students specializing in home economics); physiology, course 3, 10, or 20, 3 to 4 hours; physics, course 2, 5 hours; at least five hours in one of the following: chemistry, mathematics, bacteriology. Junior year: political economy, course 51, 6 hours.

Elective Subjects. The remainder of the required one hundred and twenty hours must consist of subjects elected under the following restrictions:

1. Not more than twenty hours may be taken in courses given in other colleges of the University.

2. In selecting his course after the first year the student must obtain the advice and approval of a professor or an assistant professor preferably in the department in which he expects to specialize, who shall be chosen by the student at the beginning of the sophomore year. Students expecting to specialize in

forestry, landscape art, rural education, or home economics must take as their advisers professors or assistant professors in those departments. All students who are preparing for teaching are recommended to consult the Professor of Rural Education as well as their Faculty Adviser before filing their term schedules.

A student who receives twelve or more hours of college credit at entrance, see page 45, may be regarded as having satisfied one of the required terms of residence.

A student who has satisfied the entrance requirements of this College, and has afterward completed in two or more Summer Sessions in Cornell University at least twelve hours of work in courses approved by the departments concerned, may be regarded as having thus satisfied one term of residence. Under no circumstances shall work done in Summer Sessions be accepted as the equivalent of more than two terms of residence. The maximum amount of credit toward the degree of Bachelor of Science which is allowed for the work in any one Summer Session is seven hours.

A student admitted to the College of Agriculture from another college in Cornell University, or from any other institution of collegiate rank, will be regarded as having completed the number of terms and hours to which his records entitle him, and will receive all the privileges of students who have completed the same number of terms and hours by residence in the College. In order, however, to obtain the degree of Bachelor of Science, he must have completed the prescribed subjects in the four-year course and the requisite number of elective hours in agricultural subjects. He must also have been in residence in the College of Agriculture for at least the last two of the required eight terms and must have completed not less than fifteen hours a term, of which two-thirds, at least, must be subjects taught by the staff of the College of Agriculture.

A student must register for at least twelve hours each term and no new student may register for more than eighteen hours.

All men students except those whose record and registration at the beginning of the senior year show that they are specializing in botany, home economics, forestry, landscape art, or entomology, must fully satisfy, before the beginning of the senior year, the requirements in farm practice. All men students are required to report to the Department of Farm Practice within the first three weeks of the first term in College.

Curriculum of Seven Years in Agriculture and Veterinary Medicine

A regular student may be registered in both the College of Agriculture and the New York State Veterinary College with the following restrictions:

1. Completion of all the required work of his course.
2. Credit of ninety hours, none of which is in the Veterinary College.
3. Permission of both the faculties concerned.

Such a student may be recommended for his degree in the College of Agriculture when he has met the following requirements:

1. Completed thirty hours of which not less than twelve shall be taught in the New York State College of Agriculture.
2. Has met both the group and agricultural elective requirements of the College of Agriculture.

On completion of the remaining three years if he meets the requirements of the State Veterinary College, he will receive the degree of doctor of veterinary medicine.

EXTENSION WORK

The extension work of the College of Agriculture is administered by the Department of Extension Teaching in cooperation with a committee representing the several departments of the college. The chief phases of the extension work, in addition to Farmers' Week held in Ithaca, are special lectures and demonstrations in various parts of the State of New York; farm visits, cooperative experiments, and fair exhibits; the maintenance of traveling schools and of demonstration schools; the conduct of reading courses and the organization of study clubs.

WINTER COURSES

The Winter Courses are seven in number, all opening on November 7, 1917, and closing on February 15, 1918. They are: 1. Agriculture; 2. Dairy Industry; 3. Poultry Husbandry; 4. Fruit Growing; 5. Home Economics; 6. Flower Growing; 7. Vegetable Gardening.

The minimum age requirement for admission to the Winter Courses is eighteen years. There are no academic requirements for admission, and no credit toward graduation may be earned in the Winter courses.

COURSES OF INSTRUCTION

ELECTIVE COURSES OPEN TO FRESHMEN

Dairy Industry 1, 2, 3, 6, 14; Drawing 1, 2; Floriculture 9; Forestry 1, 2, 3; Landscape Art 2, 3, 13; Home Economics 2; Meteorology 1; Nature Study 61; Poultry Husbandry 1, 3, 3a, 10; Rural Economy 1; Rural Engineering 3, 4, 20, 30; Vegetable Gardening 1.

AGRICULTURAL CHEMISTRY

See page 88.

ANIMAL HUSBANDRY

1. **Principles and Practice of Feeding Animals.** First or second term, credit two hours. Professor SAVAGE.
2. **Principles of Animal Breeding.** First or second term, credit three hours. Professor WING, and Messrs. MEADE and ALLEN.
5. **The Horse.** Second term, credit three hours. Professor HARPER, and Messrs. MEADE and HAM.
6. **Horse Training, Practical Course.** First term, credit two hours. Prerequisite course 5. Professor HARPER and Mr. HAM.
7. **Mechanics of the Horse.** First term, credit three hours. Prerequisite course 5. Professor HARPER.
10. **Dairy Cattle.** First term, credit four hours. Professor WING, and Messrs. MEADE and ALLEN.
11. **Beef Cattle, Sheep, and Swine.** First term, credit three hours. Assistant Professor SEULKE and assistants.
12. **Meat and Meat Products.** First or second term, credit three hours. Assistant Professor SEULKE.
14. **The Microscopic Study of Feeds for Animals.** Second term, credit two hours. Assistant Professor MAYNARD.
15. **Principles of Feeding, Advanced Course.** Second term, credit two hours. Prerequisite course 1 and Veterinary Physiology 12. For advanced and graduate students. Professor SAVAGE.
16. **Principles of Animal Genetics, Advanced Course.** Second term, credit two hours. Mr. MEADE.
17. **Advanced Stock Judging.** First and second terms, credit one hour a term. Professors WING, HARPER, SAVAGE, HOPPER, and assistants.
18. **Seminar.** First and second terms, without credit. Required of all graduate students taking either a major or a minor subject in the Department. Advanced undergraduates will be admitted by permission, and if a satisfactory thesis on an approved subject is presented may receive not to exceed two hours credit. Departmental staff.
- [20. **General Elementary Course in Animal Husbandry.** For students in the New York State Veterinary College only. Throughout the year, credit three hours each term. Professors WING, HARPER, and SAVAGE.] Not given in 1917-18.
30. **Health and Disease of Animals.** First term, credit three hours. Professors MOORE and WILLIAMS.
31. **Horseshoeing.** Second term, credit one hour. Professor ASMUS.

BOTANY

1. **General Botany.** First and second terms, credit three hours a term. Professor SCHRAMM, Miss HANCY, Messrs. BECHTEL, ERICKSON, MUENSCHER, THOMAS, WANN, DEMAREE, and others. Laboratory fee, \$2.50 a term; deposit, \$2, for first term only.
2. **Forest Botany.** First term, credit three hours. Prerequisite course 1 or its equivalent. Laboratory fee, \$3.
4. **Microscopic Wood Technology.** First term, credit two hours. Prerequisite courses 1 and 2 or an equivalent. Assistant Professor EAMES. Laboratory fee, \$4.
5. **Grasses.** Second term, credit two hours. Prerequisite course 1 or its equivalent. Professor WIEGAND and Mr. ———. Laboratory fee, \$2.
6. **Taxonomy of the Higher Plants.** Second Term, credit four hours. Prerequisite course 1 or its equivalent. Professor WIEGAND and Mr. BECHTEL. Laboratory fee, \$4; deposit, \$2.
- 6a. **Taxonomy of the Higher Plants.** Third term, credit four hours. Prerequisite course 1 or its equivalent. Professor WIEGAND and Mr. BECHTEL. Laboratory fee, \$4; deposit, \$2.

7. **Weeds and Weed Seeds.** Third term, credit two hours. Prerequisite course 1 or its equivalent. Professor WIEGAND and Mr. BECHTEL. Laboratory fee, \$2.
9. **Histology.** First and third terms, credit four hours a term. Prerequisite course 1 or its equivalent. Assistant Professor EAMES and ———. Laboratory fee, \$5.
10. **Cytology.** Second term, credit four hours. Prerequisite course 1 or its equivalent. Assistant Professor SHARP and Miss HANCY. Laboratory fee, \$4.
11. **Methods in Histology and Cytology.** First term, credit three hours. Prerequisite course 1 or its equivalent. Assistant Professors EAMES and SHARP, and Mr. WANN. Laboratory fee, \$5.
12. **Comparative Morphology of Algæ and Fungi.** Second term, credit four hours. Prerequisite course 1 or its equivalent. Professor SCHRAMM and Mr. THOMAS. Laboratory fee, \$5.
13. **Comparative Morphology of Bryophytes and Pteridophytes.** First term, credit four hours. Prerequisite course 1 or its equivalent. Assistant Professor SHARP and Miss HANCY. Laboratory fee, \$5.
14. **Comparative Morphology of Spermatophytes.** Second term, credit four hours. Prerequisite course 1 or its equivalent, and course 13. Assistant Professor SHARP and Miss HANCY. Laboratory fee, \$5.
20. **Plant Physiology.** First and second terms, credit four hours a term. Prerequisite all freshman work or its equivalent, and course 1. Professor KNUDSON, Assistant Professor CURTIS, and Messrs. BRANNON, KNOWLTON, BENSON, and NANZ. Laboratory fee, \$4; breakage fee, \$2.
21. **Plant Physiology, Advanced Lecture Course.** First and second terms, credit three hours a term. Prerequisite training in botany and chemistry, to be determined in each case by the Department; recommended for seniors and graduate students. Professor KNUDSON and Assistant Professor CURTIS.
- 21a. **Plant Physiology, Advanced Lecture Course.** Third term, credit four hours. Prerequisite as in course 21. Professor KNUDSON.
22. **Plant Physiology, Advanced Laboratory Course.** First and second terms, credit three hours a term. Must be preceded or accompanied by course 21. Professor KNUDSON, Assistant Professor CURTIS, and Messrs. BRANNON and KNOWLTON. Laboratory fee, \$5; breakage deposit, \$2.
- 22a. **Plant Physiology, Advanced Laboratory Course.** Third term, credit six hours. Requirements as in course 22. Professor KNUDSON and Mr. KNOWLTON. Laboratory fee, \$10; breakage deposit, \$5.
- [26. **Physiology of Fermentation.** First term, credit three hours. Prerequisite required work through the sophomore year, bacteriology, and course 20 or 21.] Not given in 1917-18. Laboratory fee, \$5.

Courses intended primarily for graduates

18. **Research in General Botany, Taxonomy, Histology, Cytology, and Algæ.** Throughout the year, credit not less than three hours a term, by appointment. Professors WIEGAND and SCHRAMM, Assistant Professors EAMES and SHARP. The laboratory fee depends on the nature of the work.
19. **Seminary in Taxonomy, Morphology, Cytology, and Histology.** Throughout the year. Required of graduate students in these subjects. Assistant Professors SHARP and EAMES, assisted by other members of the Department.
30. **Special Chapters in Metabolism.** Third term, credit one hour or more. Professor KNUDSON. Open only to graduates, or to undergraduates who have had course 21 and organic chemistry.
31. **Seminary in Plant Physiology.** Throughout the year, credit one hour a term. Limited to graduates taking work in the Department. Professor KNUDSON and Assistant Professor CURTIS.
33. **Research, Plant Physiology.** Throughout the year, credit for major or minor, otherwise not less than four hours a term. Prerequisite adequate training in botany, chemistry, and physiology. Professor KNUDSON and Assistant Professor CURTIS. The amount of laboratory fee is governed by the nature of the work.

DAIRY INDUSTRY

1. **Milk Composition and Tests.** First or second term, credit three hours. For regular students only. Professor TROY, Assistant Professor MCINERNEY, and Messrs. COWAN and ———. Laboratory deposit, \$3, part returnable.
2. **Butter.** First or second term, credit three hours. Must be preceded or accompanied by course 1; should be preceded or accompanied by courses 4, 6, and 8; for regular students only. Professor GUTHRIE and Mr. JACKSON. Laboratory deposit, \$4, part returnable.
3. **Cheese.** First term, credit four hours. Prerequisite course 1 or 16; should be preceded or accompanied by course 8. Assistant Professor FISK and Mr. ———. Laboratory deposit, \$2.50, part returnable.
4. **Bacteriology, Elementary Course.** First term, credit four hours. For regular students only, except by special permission. Professor STOCKING, and Messrs. SUPPLEE, BESEMER, and ———. Laboratory deposit, \$4, part returnable.

6. **Market Milk and Milk Inspection.** Second term, credit two hours. Must be preceded or accompanied by course 1 or 16; should be accompanied or preceded by courses 4 and 8. Professor ROSS and Mr. BREMER. Laboratory deposit, \$3, part returnable.

7. **Testing, Advanced Course.** Second term, credit two hours. Prerequisite course 1; not open to first- and second-year students except by special permission. Professor TROY, Assistant Professor MCINERNEY, and Messrs. COWAN and ———. Laboratory deposit, \$5, part returnable.

8. **Dairy Bacteriology.** Second term, credit four hours. Must be preceded or accompanied by course 1 and preceded by course 4 or its equivalent; open to regular students only. Professor STOCKING, and Messrs. SUPPLEE, BESEMER, and ———. Laboratory deposit, \$4, part returnable.

9. **Butter, Advanced Course.** Second term, credit three hours. Must be preceded by a good record in course 2. Professor GUTHRIE and Mr. JACKSON. Laboratory deposit, \$4, part returnable.

10. **Fancy Cheese.** Second term, credit two hours. Prerequisite course 1 or 16, and course 3. Assistant Professor FISK and Mr. ———. Laboratory deposit, \$2, part returnable.

11. **Ice Cream.** Second term, credit two hours. Prerequisite course 1 or 16, and course 14 or its equivalent. Assistant Professor FISK and Mr. ———. Laboratory deposit, \$2, part returnable.

12. **Seminary.** First or second term, credit one hour. For advanced students; required of graduate students taking work in the Department. Professors STOCKING, ROSS, TROY, and GUTHRIE, and Assistant Professor FISK.

13. **Research.** First or second term, credit one or more hours, by arrangement. For advanced students. Professors STOCKING, ROSS, TROY, and GUTHRIE, and Assistant Professor FISK. Laboratory deposit, \$2 for each credit hour, part returnable.

14. **General Agricultural Bacteriology.** First term, credit three hours. Professor STOCKING, and Messrs. SUPPLEE, BESEMER, and ———. Laboratory deposit, \$4, part returnable.

15. **Bacteriology for the Home.** Second term, credit three hours. Messrs. SUPPLEE, BESEMER, and ———. Laboratory deposit, \$4, part returnable.

16. **Milk Composition and Tests.** Second term, without credit. Similar to course 1; for special students only. Professor TROY, Assistant Professor MCINERNEY, and Messrs. COWAN and ———. Laboratory deposit, \$3, part returnable.

18. **Butter.** Second term, without credit. Must be preceded or accompanied by courses 6 and 16; for special students only. Professor GUTHRIE and Mr. JACKSON. Laboratory deposit, \$2, part returnable.

19. **Cheddar Cheese, Advanced Course.** Second term, credit two hours. Prerequisite a good record in course 3. Assistant Professor FISK. Laboratory deposit, \$2, part returnable.

DRAWING

1. **Mechanical Drawing.** First or second term, credit three hours. Assistant Professor REYNA.

2. **Free-hand Drawing.** First and second terms, credit two or more hours a term. Students may not enter the second term unless they have taken the course in the first term, or its equivalent. Professor BAKER and Miss GARRETT. Second term, Miss GARRETT.

[2a. **Free-hand Drawing and Outdoor Sketching.** Third term, credit from two to five hours. Prerequisite course 2 or its equivalent. Professor BAKER.] Not given in 1917-18.

3. **Free-hand Drawing, Advanced Course.** First or second term, credit two or more hours. Prerequisite course 2 or its equivalent. Professor BAKER and Miss GARRETT. Second term, Miss GARRETT.

4. **Perspective.** Second term, credit two hours. Prerequisite course 2 or its equivalent, and descriptive geometry. For students in landscape art. Assistant Professor REYNA.

ENTOMOLOGY, LIMNOLOGY, NATURE STUDY, AND ORNITHOLOGY

Biology

1. **General Biology.** First and second terms (second term only required), credit three hours a term. Professors NEEDHAM and JOHANNSEN, Mr. DUSHAM, and assistants. Laboratory fee, \$2.50 a term.

2. **The Ecology of Insects.** Third term, credit three hours. Professor NEEDHAM and Mr. DUSHAM.

3. **General Entomology.** First, second, and third terms, credit three hours a term. Work of the first term repeated in the third term. Prerequisite course 1 or Zoology 1. Professor HER- RICK, Assistant Professor MATHESON, Mr. WELLHOUSE, and Miss FLORENCE. Laboratory fee, \$3.

4. **Elementary Morphology of Insects.** First, second, or third term, credit three hours. Professor W. A. RILEY, and Messrs. YOUNG and ———. Laboratory fee, \$2.

5. **Elementary Systematic Entomology.** First, second, or third terms, credit two hours. Prerequisite course 4. Professor W. A. RILEY, and Messrs. YOUNG and ———. Laboratory fee, \$2.

8. **Elementary Economic Entomology.** First term, without credit. A course designed for special students; not open to regular students. Assistant Professor MATHESON.

9. **General Beekeeping.** Second or third term, credit three hours. Prerequisite first term of course 3. Assistant Professor KING. Laboratory fee, \$2.

10. **Entomotaxy.** Third term, credit two or three hours. Assistant Professor VAN DYKE and Mr. HAMILTON. Laboratory fee, \$3.

11. **Advanced Systematic Entomology.** First term, credit three or more hours. Prerequisite course 5. Assistant Professor VAN DYKE and Mr. HAMILTON. Laboratory fee, \$6.

12. **Taxonomy of Insects.** Throughout the year, credit four hours a term. Prerequisite courses 3, 4, 5, 11, 14, and 20, and preferably 10. Professors NEEDHAM and JOHANNSEN, Assistant Professors BRADLEY, VAN DYKE, and MATHESON, and cooperating specialists.

I. Coleoptera. Third term, 1917. Assistant Professor VAN DYKE.

A. Heteroptera, Physopoda, Mallophaga. First term, 1917-18. Professor JOHANNSEN.

B. Homoptera. Second term, 1917-18. Professor JOHANNSEN.

F. Neuropteroids. Third term, 1918. Professors NEEDHAM and BETTEN, and Mr. ———.

[G. Hymenoptera. First term, 1918-19. Assistant Professor BRADLEY.]

[E. Diptera. Second term, 1918-19. Professor JOHANNSEN.]

[D. Lepidoptera. Third term, 1919.]

[H. Orthoptera. First term, 1919-20.]

[13. **Classification of the Coccidæ.** First term, credit two hours. Prerequisite courses 4, 5, and 11. Assistant Professor BRADLEY.] Not given in 1917-18. Laboratory fee, \$3.

[14. **Entomological Literature and Its Technics.** First term, credit three hours. Prerequisite course 3 or 5 or Zoology 5. Assistant Professor BRADLEY.] Not given in 1917-18.

15. **Advanced Taxonomy of Coleoptera.** First term, 1917-18 only, credit three or more hours. Prerequisite courses 11 and 12 and 12 I. Assistant Professor VAN DYKE. Laboratory fee, \$1.50 a credit hour.

19. **Research in Systematic Entomology.** Throughout the year, credit three or more hours a term. Prerequisite courses 3, 10, 11, 14, 20, and one term of course 12. Assistant Professors VAN DYKE and BRADLEY, and Professors NEEDHAM and JOHANNSEN. Laboratory fee, \$.50 a credit hour.

20. **Morphology and Development of Insects.** First and second terms, credit two hours a term. Prerequisite courses 3 (first term), 4, and 5. Professor W. A. RILEY.

21. **Histology of Insects.** First or second term, credit three or more hours. Prerequisite courses 3 (first term), 4, 5, and 20. Professor W. A. RILEY. Laboratory fee, \$1.50 a credit hour.

27. **German Entomological Reading.** First term, without credit. Open only to advanced students in entomology. Professor W. A. RILEY.

28. **French Entomological Reading.** First term, without credit. Open only to advanced students in entomology or zoology. Professor W. A. RILEY.

29. **Research in Morphology of Insects.** Throughout the year, credit three or more hours a term. Prerequisite courses 3, 4, and 5. Professors W. A. RILEY and NEEDHAM. Laboratory fee, \$1.50 a credit hour.

30. **Animal Parasites and Parasitism.** First term, credit two hours. Must be preceded or accompanied by Zoology 1. Professor W. A. RILEY and Mr. CHANDLER. Laboratory fee, \$2.

31. **Relations of Insects to Disease.** Second term, credit two hours. Prerequisite first term of course 3 or 30. Professor W. A. RILEY and Mr. CHANDLER. Laboratory fee, \$2.

32. **Advanced Work in Parasitology.** First and second terms, credit two or more hours a term. Prerequisite course 30 and 31. Professor W. A. RILEY and Mr. CHANDLER. Laboratory fee, \$1.50 a credit hour.

40. **Advanced Economic Entomology and Insectary Methods.** Third term, three hours. Open only to graduates. Assistant Professor MATHESON. Laboratory fee, \$2.50.

41. **Forest Insects.** Second term, credit two hours. Prerequisite first term of course 3. Professor HERRICK.

49. **Research in Economic Entomology.** Throughout the year, credit three or more hours a term. Prerequisite courses 3, 4, and 5. Professor HERRICK and Assistant Professor MATHESON.

50. **General Limnology.** Second or third term, credit three hours. Open only to students who have taken or are taking courses 1 and 3, or the equivalent. Professor NEEDHAM and Mr. KENNEDY. Laboratory fee, \$2.50.

51. **Aquiculture.** Second term, credit two hours. Assistant Professor EMBODY.

52. **Fish Culture.** First and second terms, credit one or two hours a term. Must be preceded or accompanied by course 51. Assistant Professor EMBODY. May be taken either one or two terms. Laboratory fee, \$1.50 a credit hour.

53. **Plancton.** Second and third terms, credit one hour a term. Prerequisite permission to register. Professor JOHANNSEN and Mr. ———. Laboratory fee, \$1.50.

58. **Research in Aquiculture.** Throughout the year, credit three or more hours a term. Prerequisite courses 50, 51, and 52. Assistant Professor EMBODY.

59. **Research in Limnology.** Throughout the year, credit three or more hours a term. Prerequisite course 50 or its equivalent. Professors NEEDHAM and W. A. RILEY, and Assistant Professor EMBODY.

61. **Nature-Study.** First and second terms, credit three hours a term. Assistant Professors COMSTOCK and ALLEN, and assistants.

62. **Nature-Study, Advanced Course.** First term, credit three hours. Prerequisite courses 1 and 61. Assistant Professor COMSTOCK.

63. **Nature-Study.** First term, credit one or more hours. Open only to teachers. Assistant Professor Comstock.

65. **Conference on Nature-Study.** First term, credit one hour. Open only to teachers or prospective teachers of nature-study. Assistant Professor COMSTOCK.

Seminary. Throughout the year.

79. **Journal Club.** First and second terms. Professors NEEDHAM, W. A. RILEY, and HERRICK, and Assistant Professor BRADLEY.

Ornithology

6. **Field Ornithology.** Second term, credit three hours. Assistant Professor ALLEN and Mr. LEISTER. Laboratory fee, \$2.

[9. **Advanced Ornithology.** First term, credit three hours. Prerequisite course 5 and vertebrate zoology. Assistant Professor ALLEN. Given in alternate years with course 11.] Not given in 1917-18. Laboratory fee, \$2.

11. **Economic Ornithology and Mammalogy.** First term, credit three hours. Should be preceded by course 6 or Zoology 5; presupposes an elementary knowledge of botany and entomology. Assistant Professor ALLEN.

EXTENSION TEACHING

1. **Extension Work.** First term, credit two hours. Open to juniors and seniors, and to others by arrangement. Public Speaking 1 should precede this course. Professors EVERETT, and WHEELER, Assistant Professor GILKEY, and Messrs. WHITNEY, PHIPPS, and LOUDENSLAGER.

2. **Extension Work.** Second term, credit two hours, or three hours by arrangement. Prerequisite course 1, of which course 2 is a continuation. Professors EVERETT, and WHEELER, Assistant Professor GILKEY, and Messrs. WHITNEY, PHIPPS, and LOUDENSLAGER.

3. **Extension Work, Advanced Course.** First term, credit one hour. Prerequisite courses 1 and 2, or the equivalent. Professors CROSBY and WHEELER.

4. **Seminar.** Second term, without credit. Open to graduate students and others by special permission. Professors CROSBY and WHEELER, and Assistant Professor ROBINSON.

THE NATURAL HISTORY OF THE FARM

1. **The Natural History of the Farm.** First or second term, credit one hour. Professor NEEDHAM, Assistant Professor EMBODY, Mr. CLAASSEN, and assistants. Fee, \$2.

FARM CROPS

1. **Cereals, Forage Crops, and Miscellaneous Crops.** First or second term, credit four hours. To be preceded or accompanied by Soils 1 or 2 and Botany 1. Mr. DYNES. Laboratory fee, \$2.

2. **Farm Crops, Advanced Course.** First or third term, credit three hours. Prerequisite course 1. Professor MONTGOMERY.

4. **Special Cash Crops.** First or second term, credit three hours. To be preceded or accompanied by course 1 and Botany 1. Mr. HARDENBURG. Laboratory fee, \$2.

5. **Seminary.** First term, without credit. Required of graduate students. Professor MONTGOMERY.

6. **Research.** Throughout the year. Two or more hours a term. Prerequisite permission to register. Limited to graduate students. Professor MONTGOMERY.

FARM MANAGEMENT

1. **Cost Accounting.** First term, credit two hours. Open to juniors and seniors who have passed the farm practice examination. Should precede course 2. Mr. MYERS. Laboratory fee, \$1.

2. **Farm Management.** Second or third term, credit four hours. Open to juniors and seniors who have passed the farm practice examination. Second term, Professor LIVERMORE and Mr. ———; third term, Assistant Professor ———. Laboratory fee, \$2.

Advanced and Graduate Courses

3. **Farm Organization.** First term credit two hours. Prerequisite permission to register, and courses 1 and 2. No undergraduate will be admitted to this course who has not made an unusually good record in courses 1 and 2. Professor LIVERMORE and Mr. ———. Expenses for trips are estimated to be about \$15.

[4. **Types of Farming in the United States.** Second term, credit two hours. Prerequisite permission to register and course 3. No undergraduates will be admitted to this course who have not made an unusually good record in course 3. Professor WARREN.] Not given in 1917-18.

5. **Seminar.** Second term, credit one hour. Open to graduate students and to others by special permission. Professor LIVERMORE.

[6. **Agricultural Statistics.** First term, credit two hours. Must be preceded or accompanied by course 3. Professor WARREN.] Not given in 1917-18.

7. **Research.** Throughout the year, credit one or more hours a term. Prerequisite permission to register. First and second terms, Professors WARREN and LIVERMORE; third term, Assistant Professor ———.

FARM PRACTICE

1. **Farm Practice.** First and second terms, without credit toward graduation. Mr. GIBSON and assistants. Required of men students not specializing in botany, home economics, forestry, entomology, or landscape art.

FLORICULTURE

1. **Principles and Methods of Greenhouse Practice.** Second term, credit three hours. Prerequisite Botany 1. Professor WHITE and Miss MINNS. Laboratory fee, \$2.50.

2. **Greenhouse Construction.** Second term, credit three hours. Mr. VOLZ. Laboratory fee, \$1.

3. **Commercial Floriculture.** First term, credit four hours. Prerequisite courses 1 and 2, Botany 1 and 20, and Soils 1. Professor WHITE and Mr. THAYER. Laboratory fee, \$2.

4. **Commercial Floriculture.** Second or third term, credit four hours. Prerequisite course 3. Professor WHITE, Assistant Professor LUMSDEN, and Mr. VOLZ. Laboratory fee, \$2.

6. **Floral Arrangement.** First term, credit one hour. Professor WHITE and Miss MINNS. Laboratory fee, \$3.50.

7. **Conservatory Plants.** Second and third terms, credit two hours. Prerequisite course 1. Assistant Professor LUMSDEN. Fee, \$1.

8. **Garden Flowers.** Second or third term, credit three hours. Prerequisite Botany 1; Botany 8 recommended. Assistant Professor LUMSDEN, Miss MINNS, and Mr. VOLZ. Laboratory fee, \$2.

8a. **Grouping and Arrangement of Annuals and Herbaceous Perennials.** Second or third term, credit two hours. Assistant Professor LUMSDEN. Laboratory fee, \$2.

9. **Amateur Floriculture.** First, second, or third terms, credit three hours. Miss MINNS and Mr. THAYER. Laboratory fee, \$2.

[11. **The History and Literature of Floriculture.** Second term, credit two hours. Designed primarily for seniors and graduate students. Professor BEAL.] Not given in 1917-18.

12. **Investigation in Floriculture.** Throughout the year, credit one, two, or three hours a term. Prerequisite courses 1, 3, and 4, and permission to register. Professors WHITE and BEAL, and Assistant Professor LUMSDEN.

13. **Seminary.** Throughout the year. One hour a term. Required of advanced students who elect course 12, and of all graduate students. Professor WHITE and members of the staff.

FORESTRY

1. **The Farm Woodlot.** First or second term, credit two hours. First term, Assistant Professor COLLINGWOOD; second term, Mr. GUISE. Laboratory fee, 50 cents.

Students expecting to take courses 2 and 3 should not elect course 1, as the ground covered in course 1 is repeated in courses 2 and 3.

2. **Elements of Forestry: Mensuration and Management.** Second term, credit three hours. Assistant Professor BENTLEY. Laboratory fee, \$1.

3. **Elements of Forestry: Silviculture.** First term, credit three hours. Professor HOSMER. Laboratory fee, \$1.

[4. **Elements of Forestry: Forest Utilization.** First term, credit two hours. Professor RECKNAGEL.] Not given in 1917-18.

5. **Conservation of Natural Resources.** First term, credit two hours. Professor ADAMS.

6. **The Field of Forestry.** Second term, credit two hours. Professor SPRING.

8. **Wood Technology.** First term, credit three hours. Professor RECKNAGEL, and Messrs. GUISE and ———. Laboratory fee, \$1.

9. **Forest Utilization.** Third term, credit four hours. Professor RECKNAGEL.

10. **Forest Engineering.** Second term, credit two hours. Prerequisite plane trigonometry and one course in surveying. Assistant Professor BENTLEY.

11. **Forest Mensuration.** Third term, credit five hours. Assistant Professor BENTLEY. Laboratory fee, \$1.50.

13. **Timber Trees and Forest Regions.** Second term, credit three hours. Assistant Professor BENTLEY. Laboratory fee, \$1.

14. **Silviculture: Forest Ecology.** Third term, credit three hours. Open only to professional forestry students. Prerequisite course 13 and Botany 2 or their equivalents. Professor SPRING. Laboratory fee, 50 cents.

15. **Silviculture: Natural Reproduction and Care of the Forest.** Third term, credit three hours. Prerequisite courses 13 and 14. Professor SPRING. Laboratory fee, 50 cents.

16. **Silviculture: Forest Planting and the Forest Nursery.** Second term, credit three hours. Professor SPRING and Mr. ———. Laboratory fee, \$1.50.

18. **Forest Protection.** Second term, credit two hours. Open only to professional forestry students. Professor HOSMER.

19. **Forest Policy, Forest Law, and History of Forestry.** Second term, credit three hours. Professor HOSMER.

20. **Forest Management:** a. **Forest Organization.** Third term, credit three hours. Open only to graduate students. Professor RECKNAGEL and Assistant Professor BENTLEY.

b. **Forest Finance.** First term, credit two hours. Mr. GUISE.

21. **Forest Administration.** First term, credit two hours. Prerequisite course 20. Professor RECKNAGEL.

22. **Seminary.** First and third terms. Two hours a term. Open only to graduate students. Professors HOSMER, SPRING, and RECKNAGEL, Assistant Professors BENTLEY, CHANDLER, and COLLINGWOOD, and Mr. GUISE.

23. **Advanced Work.** Throughout the year, credit two or more hours a term. Open to undergraduate and graduate students who have had the necessary training. Professors HOSMER, SPRING, and RECKNAGEL, Assistant Professors BENTLEY, CHANDLER, and COLLINGWOOD, and Mr. GUISE.

24. **Research.** Throughout the year. Three or more hours a term. Open only to graduate students who have had the necessary training. Professors HOSMER, SPRING, and RECKNAGEL, Assistant Professors BENTLEY, CHANDLER, and COLLINGWOOD, and Mr. GUISE.

HOME ECONOMICS

1. **Foods and Nutrition, Survey Course.** Second term, credit three or five hours. May be taken in any year. Professor ROSE and Miss ———. Laboratory fee, \$10.

2. **Supervised Study.** First or second terms, credit two hours a term. Open only to freshmen in home economics, and required of them. Assistant Professor HAZARD.

3. **Foods.** First and second terms, credit, first term, four hours, second term, five hours. Prerequisite Biology 1, and Chemistry 1 and 6; Chemistry 32, 92, and 93 must precede or accompany this course. Misses HENRY and MOSES, and Mrs. BOYS. Laboratory fee, \$15 each term, part returnable.

4. **Household Sanitation.** First term, credit three hours. Must be preceded or accompanied by Dairy Industry 15 and Physics 1. Miss ———.

5. **Institution Management: Equipment and Organization.** Second term, credit two or more hours. Open only to those students who give evidence of ability in this direction. Prerequisite courses 3, 5b, 5c, and 6, or the equivalent. Miss HUNN.

5a. **Institution Management: Survey Course.** First term, credit two hours. Miss HUNN. Laboratory fee, \$2.

5b. **Institution Management: Large Quantity Cooking.** First term, credit three hours. Miss HUNN and others. Laboratory fee, \$1.

5c. **Institution Management: Institution Buying.** Second term, credit two hours. Miss HUNN and others. Laboratory fee, \$2.

6. **Dietetics.** Second term, credit five hours. Prerequisite course 3, Chemistry 32, and Biochemistry 14; should be taken in the junior year. Professor ROSE, and Misses HENRY and MOSES. Laboratory fee, \$10.

7. **Foods and Nutrition, Survey Course.** Second term, credit four hours. Professor ROSE and Mrs. BOYS. Laboratory fee, \$5.

8. **Design.** First and second terms, credit three hours a term. In the junior year. Assistant Professor WARNER. Laboratory fee, \$4 a term.

9. **Design, Advanced Course.** Second term, credit two hours. Prerequisite course 8. Assistant Professor WARNER. Laboratory fee, \$3.

10. **The House.** First and second terms, credit two hours a term. Should be accompanied by course 8. Assistant Professor YOUNG. Laboratory fee, \$1 a term.

12. **Woman and the Family.** Second term, credit three hours. Professor VAN RENSSELAER.

13. **Woman in Industry.** First term, credit three hours. Assistant Professor HAZARD.

14. **Household Management.** First term, credit three hours; second term, credit two hours. Prerequisite courses 3 and 6, and Political Science 51. Professor VAN RENSSELAER and Miss ———. Laboratory fee, \$8 a term.

15. **Elementary Clothing and Handwork.** Second term, credit two hours. Assistant Professor BLACKMORE, and Misses GLEASON and HILLHOUSE. Laboratory fee, \$2.

16. **Draping, Drafting, and Elementary Dressmaking.** First or second term, credit two hours. Prerequisite courses 2 and 15; must be accompanied by course 8. Assistant Professor BLACKMORE, and Misses GLEASON and HILLHOUSE. Laboratory fee, \$3.

17. **Dressmaking.** Second term, credit two hours. Prerequisite courses 8, 15, and 16. Assistant Professor BLACKMORE and Miss GLEASON. Laboratory fee, \$2.

17a. **Dressmaking.** First term, credit two hours. Prerequisite courses 8, 15, and 16. Required of all students specializing in clothing and textiles. Assistant Professor BLACKMORE and Miss GLEASON. Laboratory fee, \$2.

17b. **Costume Design.** Second term, credit two hours. Prerequisite courses 8, 15, 19, 16, 17a. Assistant Professors WARNER and BLACKMORE. Laboratory fee, \$2.

18. **Elementary Millinery.** First term, credit two hours. Required of all students specializing in clothing and textiles. Assistant Professor BLACKMORE and Miss GLEASON. Laboratory fee, \$2 to \$3.

19. **Textiles and Laundering.** First term, credit two hours. Prerequisite Chemistry 32. Assistant Professor BLACKMORE and Miss HILLHOUSE. Laboratory fee, \$2.

20. **Special Problems.** First and second terms, credit and hours by arrangement. Prerequisite a fundamental knowledge of home economics; open to seniors and graduate students in home economics, and to other qualified persons by special arrangement. Members of the departmental staff and others. Laboratory fee, \$5 for each period.

21. **Experimental Cooking.** First and second terms, credit two hours a term. Prerequisite course 3. Open only to seniors. Miss BREWER. Laboratory fee, \$10.50.

22. **Seminary in Nutrition.** Second term, credit one hour. Open only to seniors and graduate students in home economics. Professor ROSE and others.

23. **Extension in Home Economics.** First and second terms, credit three hours a term. Open only to seniors who have given evidence of their ability to develop this work satisfactorily. Professor VAN RENSSELAER, Miss BREWER, and others. Laboratory fee, \$5 a term.

24. **Primitive Woman.** Second term, credit three hours. Open to juniors and seniors. Assistant Professor HAZARD.

25. **Seminary in the History of Housekeeping.** Second term, credit one hour. Assistant Professor HAZARD.

26. **Accounting and Office Management.** Second term, credit two hours. Mrs. BRADFORD.

LANDSCAPE ART

[1. **Appreciation of Landscape.** First term, credit one hour. Professor DAVIS.] Not given in 1917-18.

2. **Elements of Landscape Design.** First and second terms, credit one hour. Professor DAVIS.

3. **History of Landscape Design.** First term, credit two hours. Professor DAVIS. Laboratory fee, \$1.

4. **Theory and Aesthetics of Landscape Design.** First term, credit two hours. Prerequisite course 3. Professor DAVIS.

4a. **Theory: Planning of Private Properties.** First term, credit one hour. Prerequisite course 3, and, for students specializing in landscape art, course 4. Professor DAVIS.

4b. **Theory: Planning of Public Properties.** Second term, credit two hours. Professor DAVIS.

6. **Rural Improvement.** A course of six or more lectures beginning after the Christmas recess, without credit. Professor CURTIS.

9. **Lettering and Indication.** Second term, credit two hours. Prerequisite courses 3 and 4, Architecture 9, 11, and 13. Assistant Professor MONTILLON. Laboratory fee, \$1.50.

11. **Landscape Design, Elementary Course.** First and second terms, credit four hours a term. Prerequisite courses 3, 4, 4a, 9, and 13, Architecture 9, 11, and 13, and Drawing 2, 3, and 4. Assistant Professor MONTILLON, assisted in judgments by departmental staff. Laboratory fee, \$4 a term.

13. **Plant Materials.** Third term, credit six hours. Prerequisite Botany 1. Professor CURTIS. Laboratory fee, \$1.50.

14. **Elementary Plant Materials.** First term, credit three hours. Professor CURTIS. Laboratory fee, \$1.50.

14a. **Elements of Plant Design.** First term, credit two hours. Prerequisite course 14. Professor CURTIS. Laboratory fee, \$1.50.

15. **Landscape Design, Advanced Course.** First and second terms, credit three or eight hours a term. Prerequisite course 11 and its prerequisites, and courses 13 and 17. Assistant Professor MONTILLON, assisted by Professor DAVIS. Laboratory fee, \$5 a term.

16. **Landscape Engineering and Details of Construction.** Second and first terms, credit, second term, three hours; first term, three or eight hours. Interrelated with course 15. Prerequisite Civil Engineering 10 and accompanied by Civil Engineering 11a. Professor ——— and Assistant Professor MONTILLON.

17. **Planting Design, Elementary Course.** First term, credit three hours. Prerequisite course 13. Professor CURTIS.

17a. **Planting Design, Advanced Course.** First term, credit three or eight hours. Interrelated with course 15. Prerequisite course 17. Professor CURTIS.

18. **Propagation.** First and second terms, credit one hour a term. Professor CURTIS and Mr. HUNN.

20. **Seminary.** First term, credit one hour. Departmental staff.

METEOROLOGY

1. **Meteorology and Climatology.** First or second term, credit three hours. Professor WILSON and Mr. MORDOFF. Laboratory fee, \$1.

[2. **General Climatology.** Second term, credit three hours. Prerequisite course 1. Professor WILSON and Mr. MORDOFF.] Not given in 1917-18.

This course is designed to give a general knowledge of climatology in its broader and less technical aspects.

PLANT BREEDING

1. **Genetics.** First or third term, credit four hours or, by special arrangement, three hours. Prerequisite Botany 1 and 20, or equivalents in zoology by special arrangement. First term. Professor HUTCHISON, Assistant Professor BARKER, and Mr. FRASER; third term, Assistant Professor BARKER, and Messrs. FRASER and BREGGER. Laboratory fee, \$3.

[18. **Methods of Plant Breeding.** Second term, credit two hours. Prerequisite course 1. Professor HUTCHISON and members of the departmental staff.] Not given in 1917-18.

Advanced and Graduate Courses

[11. **Biometry.** First term, credit two hours. For graduate students only. Professor LOVE.] Not given in 1917-18.

13. **Genetics, Advanced Course.** Second term, credit three hours. Primarily for graduate students. Seniors admitted by special arrangement only. Professor HUTCHISON and Mr. BREGGER. Laboratory fee, \$3.

14. **Organic Evolution.** First term, credit two hours. For seniors and graduate students. Prerequisite course 1. Assistant Professor BARKER.

16. **Research.** Throughout the year. For graduates students only. Professors EMERSON, LOVE, MYERS, and HUTCHISON, and Assistant Professor BARKER.

17. **Seminary.** First and second term. One hour a term. For graduate students only. Professors EMERSON, LOVE, MYERS, and HUTCHISON, and Assistant Professor BARKER.

PLANT PATHOLOGY

1. **General Plant Pathology.** Credit one, three, or four hours. Prerequisite Botany 1 and 9 or 20, or equivalent botany of the same type. Professor WHETZEL, and Assistant Professors GREGORY, HESLER, RANKIN, and MASSEY. Laboratory fee, \$4.50; breakage deposit, \$3.

2. **Principles of Plant Disease Control.** Prerequisite course 1. Professor WHETZEL, and Assistant Professors GREGORY, HESLER, and RANKIN. Laboratory fee, \$1.50 a credit hour; breakage deposit, \$3.

3. **Departmental Methods.** First term, credit two hours. Prerequisite permission to register. Professor WHETZEL, and Assistant Professors RANKIN, FITZPATRICK, HESLER, and BLODGETT. Laboratory fee, \$3; breakage deposit, \$3.

6. **Elementary Mycology.** First or third term, credit three hours. Prerequisite Botany 1 or its equivalent, and permission to register. Assistant Professor FITZPATRICK or HESLER. Laboratory fee, \$4.50; breakage deposit, \$3.

9. **Timber Decay and Its Prevention.** Second term, credit one hour. Prerequisite course 1. Assistant Professor RANKIN.

11. **Fungous Diseases of Plants.** Second term, credit three hours. Prerequisite course 1 or 6. Assistant Professor GREGORY or HESLER. Laboratory fee, \$6; breakage deposit, \$3.

[12. **Mycology.** First and second terms, credit four hours a term. Prerequisite Botany 1. Assistant Professor FITZPATRICK.] Not given in 1917-18.

14. **Mycology.** First term, credit four hours. Prerequisite Botany 1. Assistant Professor FITZPATRICK. Laboratory fee, \$4.50; breakage deposit, \$3.

15. **Phytopathological Histology.** Second or third term, credit one hour. Prerequisite course 1, Botany 9, and permission to register. Professor WHETZEL.

16. **Bacterial Diseases of Plants.** Second term, credit three hours. Prerequisites course 1 and elementary bacteriology. Assistant Professor STEWART. Laboratory fee, \$6; breakage deposit, \$3.

17. **History of Phytopathology.** Second or third term, credit one hour. Prerequisite course 1 and a reading knowledge of French and German. Professor WHETZEL.

18. **French Phytopathological Reading.** First or second term, two one-hour periods a week. Without credit for undergraduate students. Assistant Professor GREGORY.

19. **German Phytopathological Reading.** Second or third term, two one-hour periods a week. Without credit for undergraduate students. Professor WHETZEL.

20. **Research.** Throughout the year. Not less than three hours a term. Professors WHETZEL, REDDICK, and BARRUS, and Assistant Professors FITZPATRICK, STEWART, GREGORY, HESLER, RANKIN, BLODGETT, and MASSEY. Laboratory fee, \$1.50 a credit hour; breakage deposit, \$3.

25. **Seminary.** First and second terms. For graduate students in plant pathology. Members of departmental staff.

POMOLOGY

1. **Pomology.** First or second term, credit three hours. Prerequisite for regular students Biology 1 and the farm practice requirements, or Botany 1 and 20, and permission to register. Assistant Professors HEINICKE and OVERHOLSER, and Messrs. CARRICK and DEMOTT. Laboratory fee, \$3.50; deposit, \$1.

8. Fruit Varieties, Judging. First term, credit one hour. Prerequisite course 1. Assistant Professors OVERHOLSER and HEINICKE, and Messrs. CARRICK and DEMOTT. Laboratory fee, \$3.50.

9. The Packing of Fruit for the Markets. First term, credit one hour. Prerequisite courses 1 and 8, and permission to enter; must be preceded or accompanied by Entomology 3, Plant Pathology 1, and Soils 1. Professor REES. Laboratory fee, \$3.50.

10. Systematic Pomology. Second or third terms, credit two hours. Prerequisite courses 1 and 8, and Botany 1. Assistant Professors OVERHOLSER and HEINICKE, and Messrs. CARRICK and DEMOTT. Laboratory fee, \$1.

11. Orchard Field Trip. Credit one hour. Prerequisite courses 1, 8, and 10, and permission to register. To be taken during the three weeks preceding the opening of the first term. Assistant Professors HEINICKE and OVERHOLSER.

12. Experimental Pomology. Second term, credit two hours. Prerequisite courses 1, 8, and 10, and Botany 1, and permission to register; must be preceded or accompanied by Botany 20, Plant Pathology 1, Entomology 3, and Soils 1. Professor CHANDLER.

13. Pomology, Advanced Laboratory Course. Third term, credit one hour. Prerequisite courses 1, 8, 10, and 12, and permission to register. Assistant Professor HEINICKE, and Messrs. CARRICK and DEMOTT. Laboratory fee, \$2.

19. Research. Throughout the year, credit one hour a term. Prerequisite courses 10 and 12, Botany 1 and 20, Plant Pathology 1, Entomology 3, and Chemistry 1 and 32. Professors CHANDLER and REES, and Assistant Professors OVERHOLSER and HEINICKE.

20. Seminary. Once each month throughout the year. Required of graduate students in pomology. Members of the departmental staff.

POULTRY HUSBANDRY

1. Poultry Husbandry. First or third term, credit three hours. Professor RICE, and Messrs. HEUSER and ———.

1a. Poultry Husbandry. Second term, credit three hours. Prerequisite course 1. Professor RICE, and Messrs. HEUSER and BOTSFORD.

2. Poultry Feeds and Feeding. First term, credit two hours. Prerequisite course 1 and Animal Husbandry 1. Messrs. DANN and ———.

2a. Flock Management. First, second, or third terms, credit one hour. Must be preceded or accompanied by course 2 or by course 10, and preferably also by Animal Husbandry 1. Messrs. DANN and ANDREWS.

3. Incubator Practice. First, second, or third term, credit one hour. Must be preceded or accompanied by course 1a or by course 10. Professor RICE, and Messrs. BUCHAN and ———.

3a. Brooder Practice. First, second, or third term, credit one hour. Must be preceded or accompanied by course 1a or by course 10. Professor RICE, and Messrs. BUCHAN and ———.

4. The Breeds and Judging. First term, credit two hours. Prerequisite course 1. Assistant Professor KENT and Mr. FOX.

4a. Judging, Advanced Course. First term, credit one hour. Prerequisite course 4 and permission to register. Assistant Professor KENT.

5. Poultry-House Design and Construction. First term, credit two hours. Prerequisite course 1 and permission to register. Assistant Professor KENT, and Messrs. BUCHAN and KRUM.

6. Poultry for the Household. Second term, credit two hours. Assistant Professor BENJAMIN and Mr. ———.

7. Market Products. Second term, credit two hours. Prerequisite course 1. Assistant Professor BENJAMIN, and Messrs. ——— and ———. Students taking or having taken course 6 may not register in this course.

7a. Marketing Practice. First, second, or third term, credit one hour. Prerequisite course 7 and permission to register. Assistant Professor BENJAMIN, and Messrs. ——— and ———.

8. Poultry Farm Management. Second term, credit two hours. Prerequisite courses 1, 1a, 2, 4, 5, and Farm Management 1; must be preceded or accompanied by courses 2a, 3, 3a, 7, and Farm Management 2. Professor RICE and Mr. FOX.

9. Commercial Marketing. Second term, credit two hours. Prerequisite course 7. Assistant Professor BENJAMIN and Mr. ———.

10. Farm Poultry. Second or third term, credit three hours. Professor RICE, Assistant Professors BENJAMIN and KENT, and Mr. DANN.

11. Undergraduate Conference. First, second, or third term, or throughout the year, credit one hour a term. Prerequisite course 8 and permission to register. Members of the departmental staff.

11a. Seminary. Throughout the year. For graduate students only; required of all graduate students in poultry husbandry. Members of the departmental staff.

12. Research. First, second, or third term, or throughout the year, credit one to three hours a term. Prerequisite permission to register and must be preceded or accompanied by courses 8 and 11. Members of the departmental staff.

RURAL ECONOMY

1. Agriculture. First term, credit two hours. Open only to freshmen. Professor LAUMAN.

4. Economic and Social Status of the Rural Community. First term, credit three hours. Prerequisite Political Science 51. Professor LAUMAN, and Messrs. PHILLIPS and ———.

5. **Marketing and Prices.** First term, credit three hours. Prerequisite Political Science 51. Professor LAUMAN, and Messrs. PHILLIPS and ———.
6. **History of Agriculture.** Second term, credit three hours. Open only to seniors. Professor LAUMAN.
7. **Rural Economy.** Second term, credit three hours. Open only to selected seniors who have had course 4, and additional training in economics and history. Professor LAUMAN.
8. **Cooperation.** Second term, credit three hours. Prerequisite Political Science 51. Professor LAUMAN, and Messrs. PHILLIPS and ———.
12. **Research in Rural Economy.** First and second terms, credit two or three hours a term. For seniors who have done superior work and for graduates. Professor LAUMAN.
14. **Seminary.** First and second terms. By special permission, for students who have had courses 4 and 5 or their equivalent. Professor LAUMAN.
16. **Rural Organization.** Second term, credit one hour. Open only to seniors. Prerequisite course 4 and Farm Management 2. Professor BURRITT.

RURAL EDUCATION

1. **Introduction to Education.** First and second terms, credit four hours. Open to juniors and seniors. Assistant Professor KRUSE.
2. **General Methods in Vocational Education.** First and second terms, credit four hours. Open to juniors and seniors who have completed course 1 or its equivalent. Assistant Professor ———.
3. **Agriculture in the High School.** First, second, and third terms, credit three hours. Open to juniors and seniors who have completed courses 1 and 2 and who have met the farm practice requirements. Professors LUSK and WORKS. Laboratory fee, \$1.
4. **Home Economics in the High School.** Second term, credit three hours. Open to juniors and seniors who have completed courses 1 and 2. Professor WORKS and Miss BENNETT. Laboratory fee, \$1.
5. **Teaching.** First or second term, credit, not to exceed five hours, to be determined by work done. Professors WORKS and LUSK.
7. **Investigation.** Second and third terms. Open only to graduate students who have had previous preparation in education. Professors WORKS and LUSK, and Assistant Professors KRUSE and ———.

RURAL ENGINEERING

1. **Farm Field Machinery.** Second term, credit three hours. Prerequisite Drawing 1 or reasonable and approved proficiency in drawing. Assistant Professor HAZEN and Mr. ———. Laboratory fee, \$2.
2. **Farm Power Machinery.** First term, credit three hours. Prerequisite Drawing 1 or reasonable and approved proficiency in drawing. Assistant Professor HAZEN and Mr. ———. Laboratory fee, \$2.
3. **Farm Mechanics.** First, second, or third term, credit three hours. First and second terms, Assistant Professor HAZEN and Mr. ———; third term, Professor H. W. RILEY. Laboratory fee, \$2.
4. **Steam.** Second term, credit one or three hours. Assistant Professor HAZEN. Laboratory fee, for the three hour course, \$2.
19. **Research in Farm Mechanics.** First, second, or third term, credit one or more hours. Prerequisite adequate ability and training for the work proposed and permission to register. Professor H. W. RILEY and Assistant Professor HAZEN.
20. **Farm Engineering.** First, second, or third term, credit three hours. Prerequisite plane geometry. Students are urged to take Drawing 1 in preparation for this course. First and second terms, Assistant Professors ROBB and MCCURDY; third term, Mr. STRAHAN. Laboratory fee, \$2.
21. **Drainage and Irrigation.** (Same as Soils 21.) Second term, credit three hours. Prerequisite courses 3 and 20 or the equivalent, and Soils 1, and Drainage 1 or its equivalent. Professor BUCKMAN, and Assistant Professors ROBB and MCCURDY. Laboratory fee, \$2.
28. **Farm Engineering, Advanced Course.** First term, credit three hours. Prerequisite course 20 or its equivalent. Assistant Professors ROBB and MCCURDY.
30. **Farm Structures.** Second or third term, credit three hours. Prerequisite Drawing 1 or its equivalent. Mr. STRAHAN. Laboratory fee, \$1.

SOIL TECHNOLOGY

1. **Principles of Soil Management.** First or second term, credit three hours. Prerequisite Chemistry 1 and Geology 1. Professor BUCKMAN. Laboratory deposit, \$3.
5. **Soil Surveying and Mechanical Soil Analysis.** First term, credit three hours. Prerequisite course 1, Physical Geography 5, and Chemistry 6. Professors BUCKMAN and BIZZELL. Laboratory deposit, \$3.
21. **Drainage and Irrigation.** Second term, credit three hours. Prerequisite course 1, Rural Engineering 3 and 20 or the equivalent, and Drawing 1 or its equivalent. Professor BUCKMAN, and Assistant Professors ROBB and MCCURDY. Laboratory fee, \$2.

6. **Soils, Advanced Course.** First term, credit two hours. Prerequisite course 1, and Chemistry 6. Professor BIZZELL.

11. **Research.** Throughout the year. For graduate students only. Professor BIZZELL and other members of the Department.

14. **Seminary.** First and second terms, without credit. Open to seniors who have taken course 6, and required of graduate students. Professors LYON, FIPPIN, BIZZELL and BUCKMAN, and Assistant Professors WILSON and WARSAW.

VEGETABLE GARDENING

1. **Vegetable Gardening, Introductory Course.** Second term, credit one hour. Open to freshmen. Acting Professor WORK.

2. **Commercial Vegetable Gardening.** Second or third term, credit four hours. Prerequisite course 1 and Botany 1; must be preceded or accompanied by Soils 1. Assistant Professor KIRKPATRICK and Mr. KENERSON. Laboratory fee, \$2.

3. **Commercial Vegetable Gardening.** Second and third terms, credit four hours a term. Prerequisite course 1, Botany 1, and Soils 1. Acting Professor WORK and Mr. KENERSON. Laboratory fee, \$2 a term.

4. **Vegetable Forcing.** Second term, credit three hours. Prerequisite course 2 or 3; should be preceded by Floriculture 2. Assistant Professor SCHNECK. Laboratory fee, \$2.

5. **Systematic Vegetable Crops.** Third term, credit three hours. Prerequisite permission to register; must be preceded or accompanied by course 2 or 3. Acting Professor WORK and Mr. KENERSON. Laboratory fee, \$2.

6. **Practice.** First, second, or third term, one or two hours, without credit. Prerequisite permission to register. Acting Professor WORK and Mr. HARGREAVES.

7. **Vegetable Gardening, Advanced Course.** Credit two or more hours. Prerequisite course 3 and permission to register. Acting Professor WORK and members of the staff. Laboratory fee, \$1 a credit hour.

8. **Inspection Trip.** Third term, credit one hour. Prerequisite course 2 or 3, and permission to register. Acting Professor WORK.

9. **Canning Vegetable Crops.** Third term, credit two hours. (An additional credit hour of laboratory work may be elected by arrangement.) Must be preceded or accompanied by course 2 or 3. Assistant Professor KIRKPATRICK. Laboratory fee, \$3.50.

20. **Home Vegetable Gardening.** Second term, credit three hours. Assistant Professor SCHNECK. Laboratory fee, \$2.

COLLEGE OF ARCHITECTURE

For detailed information concerning the work of the College of Architecture, candidates for admission to that college should consult the Announcement of the College of Architecture which will be sent gratis on application to the Secretary of the University.

FACULTY

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President.

CLARENCE AUGUSTINE MARTIN, Dean of the College of Architecture, and Professor of Architecture.

OLAF MARTINIUS BRAUNER, Professor of Drawing and Painting.

ALBERT CHARLES PHELPS, B.S., M.Arch., Professor of Architecture and Secretary of the Faculty of Architecture.

GEORGE YOUNG, jr., B.Arch., Professor of Architecture, in the Theory of Construction. (Absent on leave.)

EVERETT VICTOR MEEKS, A.B., A.D.G., Acting Professor of Architecture.

CHRISTIAN MIDJO, Assistant Professor of Freehand Drawing and Modeling.

LEROY P. BURNHAM, B.S.Arch., M.S. Arch., Assistant Professor of Design.

GEORGE RAY CHAMBERLAIN, M.E., Assistant Professor of Freehand Drawing.

SHEPHERD STEVENS, B.S., A.D.G., Assistant Professor of Design.

HIRAM SAMUEL GUTSELL, B.P., A.M., Assistant Professor of Freehand Drawing.

HUBERT E. BAXTER, B.Arch., Instructor in Architecture. (Absent on leave.)

LESLIE VERNE LACY, B.Arch., Instructor in Architecture.

Students in the College of Architecture receive instruction also from a large corps of professors and instructors in the Colleges of Arts and Sciences, Civil Engineering, Mechanical Engineering, and Agriculture (Department of Landscape Design).

Each year men distinguished in architecture or in allied professions are invited to lecture before the College. These lectures during the year 1916-17 were: Frederick L. Ackerman, B.Arch., F.A.I. A.

George B. Ford, Consultant to the Committee on City Plan of the City of New York.

Marcus M. Marks, President of the Borough of Manhattan.

William Francklyn Paris, L.H.D.

A. Kingsley Porter, Honorary Member A. I. A., Lecturer upon Architecture, Yale School of Fine Arts.

Frank B. Williams, A.M., LL.B.

THE DEGREE OF BACHELOR OF ARCHITECTURE

For admission to the College of Architecture, see page 39; for tuition in the College of Architecture, see page 46.

The undergraduate instruction for students in the College of Architecture leads to the degree of Bachelor of Architecture or to the degree of Bachelor of Science in Architecture, the requirements for which are the completion of one of the following curricula.

1. The curriculum of four years in architecture leading to the degree of Bachelor of Architecture.

2. The curriculum of four years in construction leading to the degree of Bachelor of Science in Architecture.

3. The curriculum of five years in architecture leading to the degree of Bachelor of Architecture.

4. The curriculum of five years in construction leading to the degree of Bachelor of Science in Architecture.

For the requirements in military science and tactics and in physical culture, see pages 174-175.

Admission as Special Students not Candidates for the degree B. Arch.

Applicants may, without formal examination, be admitted to the two-year special curriculum in architecture, provided they give satisfactory evidence of ability to do the required work of the course and have neither been previously admitted to the University nor refused as candidates for admission. The applicant must be at least twenty-one years of age; he must have had a good high school training or its equivalent, including particularly a good working knowledge of plane geometry and of algebra, through quadratic equations; and should be familiar with the details and proportions of the classic orders of architecture. He shall have had at least three years' experience in some good architect's office, or its equivalent, and shall submit with his application examples of his draftsmanship. Architectural drawings in particular are required, but it is to the applicant's advantage to submit any additional work that would tend to show his artistic ability or skill as a draftsman. The application should be accompanied by a certificate that the drawings submitted are the work of the applicant.

THE CURRICULUM OF FOUR YEARS IN ARCHITECTURE

Freshman Year	No. of Course	1st Term	2d Term
Analytical Geometry and Calculus	8	3	3
Descriptive Geometry	9	3	—
History of Architecture	10	3	3
Elements of Architecture	11	3	3
Freehand Drawing	12	3	3
Shades and Shadows	13	—	2
Water Color Painting	14	—	2
Masonry Construction	15	—	2
Building Stones and Clay Products	30	2	—
Summer Reading (See page 144)			

Sophomore Year	No. of Course	1st Term	2d Term
History of Architecture	20	3	—
Design	21	8	8
Drawing from the Antique	22	1	2
Adv. Water Color Painting	23	2	—
Perspective	24	—	1
Historic Ornament	25	—	2
Modeling	26	—	2
Mechanics	27	—	2
Stereotomy	28	1	—
Oral Expression	29	3	—
Summer Reading (See page 144)			

Junior Year	No. of Course	1st Term	2d Term
History of Painting and Sculpture	30	1	1
Design	31	8	—
Design	31a	—	6
Drawing from the Antique	32	2	—
Fire-Resisting Construction	33	1	—
Carpentry and Specifications	34a	2	—
Working Drawings	34b	—	4
Strength of Materials	35	2	—
Graphic Statics	35a	1	—
Structural Design	35b	—	5
Heating, Plumbing, and Lighting	36	—	2

	Senior Year	No. of Course	1st Term	2d Term
Modern Architecture.....	40	—	2	
Design	41	10	8	
Design	41a	—	4	
Life Class.....	42	3	—	
City Planning.....	44	1	—	
Elective		3	2	

THE CURRICULUM OF FOUR YEARS IN CONSTRUCTION

	Freshman Year	No. of Course	1st Term	2d Term
Analytical Geometry and Calculus.....	5	5	5	
Descriptive Geometry.....	9	3	—	
History of Architecture.....	10	3	3	
Elements of Architecture.....	11	3	3	
Freehand Drawing.....	12	3	3	
Shades and Shadows.....	13	—	2	
Masonry Construction.....	15	—	2	
Summer Reading (See page 144).....				

	Sophomore Year	No. of Course	1st Term	2d Term
Design	21	8	8	
Perspective	24	—	1	
Mechanics (C.E.).....	20	5	—	
Mechanics (C.E.).....	21	—	5	
Physics	2	5	—	
Heating, Plumbing, and Lighting.....	36	—	2	
Elective	—	—	2	
Summer Reading (See page 144).....				

	Junior Year	No. of Course	1st Term	2d Term
History of Architecture.....	20	3	—	
Design	31	8	—	
Carpentry and Specifications.....	34a	2	—	
Bridges (C. E.).....	71	4	4	
Materials Laboratory (C. E.).....	22	—	2	
Materials of Construction (C. E.).....	25	—	3	
Concrete Construction (C. E.).....	77	—	3	
Modern Architecture.....	40	—	2	
Oral Expression.....	29	—	3	

	Senior Year	No. of Course	1st Term	2d Term
Antique, Water Color, or Modeling.....		2	—	
Fire-Resisting Construction.....	33	1	—	
City Planning.....	44	1	—	
Steel Buildings (C. E.).....	76	—	3	
Concrete Design (C.E.).....	78	—	3	

In addition to the above not less than 23 hours (the major part of which must be in Engineering) from courses in Engineering, Architecture, and Economics or kindred subjects, the election in all cases to be subject to faculty approval.

THE CURRICULA OF FIVE YEARS LEADING TO THE DEGREE OF BACHELOR OF ARCHITECTURE OR BACHELOR OF SCIENCE IN ARCHITECTURE

Since considerable latitude is allowed in choice of entrance subjects offered for admission to these curricula, the first two years must be varied accordingly. The following outline is given as the basis upon which the curricula will be formulated.

Courses required if not offered for entrance

	First Year	No. of Course	1st Term	2d Term
*French		1	6	or 6
English		1 or 3	4	4
Solid Geometry		1	3	or 3
Advanced Algebra		2	5	or 5
or				
Advanced Algebra		2(E)	3	
Plane Trigonometry		3	3	or 3

Courses especially recommended for election.

*Chemistry	1	6	or 6
Physics	3	6	or 6
History of Architecture	10	3	3
Freehand Drawing	12	3	3

Other subjects from which election is advised are: German, Spanish, History, Psychology, Geology, Music.

Second Year

This should comprise all of the first year of the curriculum of four years not already taken, with electives to make a full schedule. These electives may be chosen somewhat freely but are subject to faculty approval. In general the student is advised to elect non-professional subjects such as language, economics, etc.

Third, Fourth, and Fifth Years

The prescribed work for these years will be the same as the last three years of the regular curricula of four years in architecture or construction.

SPECIAL CURRICULUM OF TWO YEARS IN ARCHITECTURE

This special curriculum does not lead to a degree, but a certificate will be issued upon its satisfactory completion. Where students are prepared to do advanced work arrangements will be made, within the limits of the curriculum, to meet individual cases.

	First Year	No. of Course	1st Term	2d Term
History of Architecture		10	3	3
Design		21	8	8
Freehand Drawing		12	3	3
Descriptive Geometry		9	3	—
Shades and Shadows		13	—	2
Perspective		24	—	1
Water Color Painting		14	—	2
	Second Year	No. of Course	1st Term	2d Term
History of Architecture		20	3	—
Design		41	10	8
Design		41a	—	4
Drawing from the Antique		22	1	—
Advanced Water Color Painting		23	2	—
Modeling in Clay		26	—	2
Modern Architecture		40	—	2

*Students entering the construction course are required to take Chemistry, but will not be required to take French.

The Degrees of A. B. and B. Arch.

In accordance with the rules of the College of Arts and Sciences, qualified seniors in that college may take their senior year in the College of Architecture, receiving the degree of A.B. at the end of the year. If by their privileges of election of subjects in the College of Arts and Sciences, these seniors have during their first three years completed the required freshman subjects in architecture, they may thus, by the end of their fourth year of residence, complete the architectural subjects required in the sophomore year. The fifth year and the sixth year of residence, with registration in the College of Architecture, will then be the junior year and the senior year of the curriculum of four years in the College of Architecture.

The Degrees of C.E. and B.S.Arch.

By special arrangement between the colleges concerned, a student may in six years secure the degree of Bachelor of Science in Architecture and the degree of Civil Engineer.

COURSES OF INSTRUCTION

- 1a. **Elementary Freehand Drawing.** Throughout the year, credit two hours a term. Assistant Professor CHAMBERLAIN and Assistant Professor GUTSELL.
- 1b. **Elementary Freehand Drawing.** Throughout the year, credit three hours a term. Assistant Professor CHAMBERLAIN and Assistant Professor GUTSELL.
- 2a. **Advanced Freehand Drawing.** Throughout the year, credit two hours a term. Prerequisite course 1b or its equivalent. Assistant Professor CHAMBERLAIN and Assistant Professor GUTSELL.
- 2b. **Advanced Freehand Drawing.** Throughout the year, credit three hours a term. Prerequisite course 1b or its equivalent. Assistant Professor CHAMBERLAIN and Assistant Professor GUTSELL.
8. **Analytic Geometry and Calculus.** Throughout the year, credit three hours a term. Given in the College of Arts and Sciences.
9. **Descriptive Geometry.** First term, credit three hours. Prerequisite Solid Geometry. Professor YOUNG and Mr. BAXTER.
10. **History of Architecture.** Throughout the year, credit three hours a term. Professor PHELPS.
11. **Elements of Architecture.** Throughout the year, credit three hours each term. The second term must follow or be taken with Shades and Shadows. Mr. LACY.
12. **Freehand Drawing.** Throughout the year, credit three hours a term. Assistant Professor CHAMBERLAIN.
13. **Shades and Shadows.** Second term, credit two hours. This course must follow or be accompanied by descriptive geometry. Professor MARTIN and Mr. LACY.
14. **Water Color Painting.** Second term, credit two hours. Prerequisite course 12. Assistant Professor MIDJO.
15. **Masonry Construction.** Second term, credit two hours. Professor MARTIN.
20. **History of Architecture.** First term, credit three hours. Prerequisite course 10. Professor PHELPS.
21. **Design.** Throughout the year, credit eight hours a term. Prerequisite courses 11 and 13. Assistant Professor STEVENS.
- 21a. **Interior Decoration.** Throughout the year, credit four hours a term. Prerequisite course 21 or its equivalent. Assistant Professor STEVENS.
22. **Drawing from the Antique.** Throughout the year, credit one hour first term and two hours second term. Prerequisite course 12. Professor BRAUNER and Assistant Professor MIDJO.
23. **Advanced Water Color Painting.** First term, credit two hours. Prerequisite course 14. Assistant Professor MIDJO, and Assistant Professor GUTSELL.
24. **Perspective.** Second term, credit one hour. Prerequisite courses 9 and 11. Professor MARTIN and Mr. BAXTER.
25. **Historic Ornament.** Second term, credit two hours. Prerequisite courses 10 and 20. Professor PHELPS.
26. **Modeling.** Second term, credit two hours. Assistant Professor GUTSELL.
27. **Mechanics.** Second term, credit two hours. Prerequisite Mathematics 8. Professor YOUNG.
28. **Stereotomy.** First term, credit one hour. Prerequisite course 9. Mr. BAXTER.
29. **Oral Expression.** First term, credit three hours. Given in the College of Arts and Sciences by Professor WINANS.
30. (A. and S.) **Building Stones and Clay Products.** First term, credit two hours. Given in the College of Arts and Sciences by Professor RIES and Mr. GREENLAND.
30. **History of Painting and Sculpture.** Throughout the year, credit one hour a term. Professor PHELPS.
- 30a. **History of Art.** Throughout the year, credit two hours a term. Assistant Professor GUTSELL.
- 30b-1. **History of Art.** First term, credit two hours. Assistant Professor GUTSELL. Will be given in 1918-19 and alternate years following.
- 30b-2. **History of Art.** Second term, credit two hours. Assistant Professor GUTSELL. Will be given in 1918-19 and alternate years following.
31. **Design.** First term, credit eight hours. Prerequisite course 21. Assistant Professor BURNHAM.
- 31a. **Design.** Second term. Credit six hours. Prerequisite courses 21 and 31. Assistant Professor BURNHAM.
32. **Drawing from the Antique.** First term, credit two hours. Prerequisite course 22. Professor BRAUNER and Assistant Professor MIDJO.
33. **Fire Resisting Construction.** First term, credit one hour. Professor MARTIN.

- 34a. **Carpentry and Specifications.** First term, credit two ours. Professor MARTIN.
- 34b. **Working Drawings.** Second term, credit four hours. Prerequisite courses 21 and 31. Assistant Professor BURNHAM.
35. **Strength of Materials.** First term, credit two hours. Prerequisite course 27. Professor YOUNG and Mr. BAXTER.
- 35a. **Graphic Statics.** First term, credit one hour. Prerequisite course 27, and must follow or be taken with course 35. Professor YOUNG and Mr. BAXTER.
- 35b. **Structural Design.** Second term, credit five hours. Prerequisite courses 27, 35 and 35a. Professor YOUNG and Mr. BAXTER.
36. **Heating, Plumbing, and Lighting.** Second term, credit two hours. Professor MARTIN.
40. **Modern Architecture.** Second term, credit two hours. Prerequisite courses 10 and 20. Professor PHELPS.
41. **Design.** Throughout the year, credit ten hours first term, and eight hours second term. Prerequisite courses 21 and 31. Acting Professor MEEKS and Assistant Professor BURNHAM.
- 41a. **Design.** Second term, credit four hours. Acting Professor MEEKS and Assistant Professor BURNHAM. Prerequisite course 41.
42. **Life Class.** Throughout the year, credit three hours first term and two hours second term. First term required, second term elective. Professor BRAUNER.
43. **Historical Seminary.** Throughout the year, credit one hour a term. Prerequisite courses 10 and 20. Professor PHELPS.
- [44. **City Planning.** First term, credit one hour. Lectures by nonresidents and by members of the University Faculty. It is advised that course 57b in Citizenship, given in the department of Political Science, two hours, second term, be elected to supplement the work of this course.] Not given in 1917-18.
50. **History of Architecture.** Throughout the year, credit one hour a term. Professor PHELPS. Given in 1917-18 and in alternate years following.
- 50a. **History of Renaissance Architecture.** First term, credit one hour. Prerequisite course 50 or course 10. Professor PHELPS. Will be given in 1918-19 and in alternate years following.
- Summer Reading.** In addition to the regular studies of the freshman and sophomore years the students are required to read, during the summer recess, books of their own selection from grouped lists. The book lists are prepared and one or more introductory lectures given each year, just before the summer vacation, by one of the professors in the Department of English in the College of Arts and Sciences.

SCHOLARSHIPS AND PRIZES. The Sands Memorial Medal and the Brown Memorial Medal are awarded annually for especially meritorious work in design; the Fuertes Memorial Prizes in Public Speaking are awarded to students in the Colleges of Architecture, Mechanical Engineering, and Civil Engineering. For these, and for the scholarships and prizes that are open to all students of the University, see page 165.

Graduates of the College of Architecture are admitted without examination to the competitions for scholarships in the American Academy in Rome, and to the Paris Prize competition of the Society of Beaux-Arts Architects; and they are excused from the usual examinations, except those relating to practical experience, required for admission to the American Institute of Architects and for license in those states where a license is required for the practice of architecture.

COLLEGE OF CIVIL ENGINEERING

For detailed information concerning the work of the College of Civil Engineering, candidates for admission to that college should consult the Announcement of the College of Civil Engineering which will be sent gratis on application to the Secretary of the University.

FACULTY

JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President.

EUGENE ELWIN HASKELL, C.E., Dean of the College of Civil Engineering and Professor of Experimental Hydraulics.

IRVING PORTER CHURCH, C.E., M.C.E., Emeritus Professor of Applied Mechanics and Hydraulics.

HENRY SYLVESTER JACOBY, C.E., Professor of Bridge Engineering, in charge of the College Library.

HENRY NEELY OGDEN, C.E., Professor of Sanitary Engineering.

FRED ASA BARNES, C.E., M.C.E., Professor of Railroad Engineering.

ORA MINER LELAND, B.S. (C.E.), Professor of Geodesy and Astronomy. (Absent on leave.)

SIDNEY GONZALES GEORGE, C.E., Professor of Mechanics of Engineering.

JOHN THOMAS PARSON, Assistant Professor of Drawing.

ERNEST WILLIAM SCHODER, B.S., Ph.D., Assistant Professor of Experimental Hydraulics. (Absent on leave.)

MILES ALBION POND, Ph.B., Assistant Professor of Civil Engineering.

FRANCIS JOSEPH SEERY, S.B., Assistant Professor of Civil Engineering.

ERNEST WILLIAM RETTGER, A.B., Ph.D., Assistant Professor of Applied Mechanics.

CHARLES LEOPOLD WALKER, C.E., Assistant Professor of Sanitary Engineering.

KENNETH BERTRAND TURNER, C.E., M.C.E., Assistant Professor of Hydraulics.

ADELBERT PHILO MILLS, B.S. and M.S., (C.E.), Assistant Professor of Testing Materials.

PAUL HALLADAY UNDERWOOD, C.E., Assistant Professor of Topographic and Geodetic Engineering.

EARLE NELSON BURROWS, C.E., M.C.E., Assistant Professor of Bridge Engineering.

WALTER L. CONWELL, C.E., Assistant Professor of Railroad Engineering, and Secretary of the Faculty. (Absent on leave.)

LEONARD ALEXANDER LAWRENCE, B.S., Assistant Professor of Topographic and Geodetic Engineering. (Absent on leave.)

LEONARD CHURCH URQUHART, C.E., Instructor in Bridge Engineering.

CARL CRANDALL, C.E., Instructor in Civil Engineering.

CHAUNCEY RUTHVEN MCANILIS, B.S., C.E., Instructor in Civil Engineering.

JOHN E. PERRY, B.S., Instructor in Railroad Engineering.

THE DEGREE OF CIVIL ENGINEER

For admission to the College of Civil Engineering see page 39; for tuition in the College of Civil Engineering see page 46.

The undergraduate instruction for students in the College of Civil Engineering leads to the degree of Civil Engineer, the requirement for which is the completion of the following curriculum. For the requirements in military science and tactics and in physical culture, see pages 174-175.

The Curriculum of Four Years in Civil Engineering

Freshman Year	Course No.	First term	Second term
Analytics	5 (1)	5	—
Differential and Integral Calculus	5 (2)	—	5
Physics	2	5	—
Physics	7	—	3
Chemistry	1	—	6
Descriptive Geometry	1	2	2
Drawing	2	1	1
Elementary Surveying	10	3	—
Introductory Lectures	9	1	—
Military Drill	1	3	3

Sophomore Year	Course No.	First term	Second term
Practical Geology	31	3	3
Mechanics of Engineering	20	5	—
Mechanics of Engineering	21	—	5
Materials Laboratory	22	2 or 0	0 or 2
Drawing	4	2	2
Advanced Surveying	11	2	3
Materials of Construction	25	3 or 0	0 or 3
Physics	14	0 or 2	2 or 0
Technical Reports	24	3	or 3
Military Drill	1	3	3
Summer Survey (five weeks in June and July)	13	—	5

Junior Year	Course No.	First term	Second term
Elements of Economics	52	2	2
Railroads	60	4	1
Engineering Construction	67	—	3
Bridges	71	4	3
Hydraulics	40	3	—
Municipal Sanitation	52	—	3
Engineering Problems	29	—	2
Survey Computations and Mapping	14	1	—
*Elective		3	3

Senior Year	Course No.	First term	Second term
Public Speaking	P.S. 1	3	or 3
Heat Engines and Auxiliaries	P. 11	3	or 3
**Elements of Electrical Engineering	E. 12	4	—
Water Supply	C.E. 30	3	or 3
Concrete Construction	C.E. 77	3	or 3
Specifications and Contracts	C.E. 90	2	or 2
Engineering Design	C.E. 91	3	or 3
Electives		6	and 6

Required hours in Senior year 17 16

The required courses in mathematics, physics, chemistry, geology, and political economy are given in the College of Arts and Sciences. The required work in electrical engineering and steam machinery is given in Sibley College.

*Of the electives in the Junior year three hours may be taken in approved non-technical subjects.

**Any one desiring to take a more extended course than E. 12 may substitute E. 14 and E. 15, given in Sibley College.

THE DEGREES OF BACHELOR OF ARTS AND CIVIL ENGINEER

Seniors in good standing in the College of Arts and Sciences, who have been in actual residence at least six terms, exclusive of summer sessions, and have a credit of at least 90 hours, may be registered both in the College of Arts and Sciences and in the College of Civil Engineering.

In accordance with this provision the following suggestion is given for a six year course leading to the degrees of A.B. and C.E.

The following subjects are to be included in the course of study of at least 90 hours in the College of Arts and Sciences during the first three years of residence.

	No. course	First term	Second term
Analytic Geometry	5 (1)	5	—
Calculus	5 (2)	—	5
Physics	2, 7	5	3
Physics	10	1	1
Chemistry	1	6	(or 6)
Chemistry	6	5	(or 5)
Practical Geology	31	3	3
Descriptive Geometry	1	2	2
Drawing	2	1	1
Introductory Lectures	9	1	—
Elementary Surveying	10	3	—

The following subjects in Civil Engineering are to be taken during the fourth year, when registered in both colleges.

	No. course	First term	Second term
Elements of Economics	52	2	2
Drawing	4	2	2
Advanced Surveying	11	2	3
Mechanics of Engineering	20, 21	5	5
Materials Laboratory	22	—	2
Materials of Construction	25	—	3
Physics	14	2	—
Summer Survey (five weeks in June and July)	13		6

The work for the fifth and sixth years is to include the subjects of the junior and senior years, of the four year course leading to the degree of Civil Engineer except that course 52 in Elements of Economics should be replaced by electives.

COURSES OF INSTRUCTION

DESCRIPTIVE GEOMETRY AND DRAWING

1. **Descriptive Geometry.** Freshmen. Credit two hours first term, and two hours second term. Assistant Professor POND.
2. **Drawing and Lettering.** Freshmen. Credit two hours. Assistant Professor POND.
4. **Drawing and Lettering.** Sophomores. Throughout the year, two drawing periods per week. Prerequisite course 1. Assistant Professor PARSON.
9. **Introductory Lectures.** Freshmen. Credit one hour. Two lectures a week with required readings. This course is under the supervision of Dean HASKELL.

TOPOGRAPHIC AND GEODETIC ENGINEERING

10. **Elementary Surveying.** Freshmen. First term, credit three hours. One recitation and two field or computation periods a week. Assistant Professors UNDERWOOD and LAWRENCE.
11. **Advanced Surveying.** Sophomores. Throughout the year. First term, credit two hours; second term, credit three hours. Prerequisite course 10. Assistant Professors UNDERWOOD and LAWRENCE.
- 11a. **Advanced Surveying.** For students in Forestry and Landscape Art. Second term, credit two hours. Prerequisite course 10. Assistant Professor LAWRENCE.
12. **Elementary Surveying.** Primarily for students in Sibley College. Second term, credit two hours. Assistant Professor UNDERWOOD.
13. **Summer Survey; Topographic, Hydrographic, and Geodetic Survey; Camp.** Sophomores. Five weeks in June and July; credit six hours. Prerequisite course 11. Open also to students in Forestry and Landscape Art who have had course 11a, for whom the work is modified to meet their special needs. Professor LELAND, Assistant Professors UNDERWOOD and LAWRENCE, and assistants.
14. **Survey Computations.** Juniors. Prerequisite course 13. First term, credit one hour. Professor LELAND and Assistant Professors UNDERWOOD and LAWRENCE.
- 14A. **Mapping.** Elective. Upperclassmen. Required of students in Forestry. Second term, credit two hours. Professor LELAND.
- 14B. **Problems in the Adjustment of Observations.** Elective. Upperclassmen. Prerequisite course 13. Second term, credit one hour. Professor LELAND.
15. **Least Squares; Adjustment of Observations.** Elective. Prerequisite, calculus and physics. First term, credit two hours. Lectures and recitations. Assistant Professor UNDERWOOD.
16. **Advanced Topographic Surveying.** Elective. Upperclassmen. Prerequisite course 13. First term, credit two hours. Professor LELAND.
17. **Geodesy and Geodetic Laboratory.** Elective. Upperclassmen. Prerequisite course 11. First term, credit three hours. Professor LELAND.
18. **Geodetic Astronomy.** Elective. Upperclassmen. Prerequisite course 11. Second term, credit three hours. Professor LELAND and Assistant Professor UNDERWOOD.

MECHANICS OF ENGINEERING

20. **Mechanics of Engineering.** For sophomores in Civil Engineering. First term. Credit five hours. Repeated in one section, second term. Prerequisite, Mathematics Course 5.
21. **Mechanics of Engineering.** Second term. Continuation of Mechanics 20. Prerequisite Mechanics 20. Credit five hours.
26. **Advanced Mechanics.** Seniors and graduates. Either term, credit three hours. Prerequisite courses 20 and 21. Professor GEORGE and Assistant Professor RETTGER.
29. **Engineering Problems.** Juniors, second term. Credit two hours. Prerequisite courses 20, 21 and 40. Professor GEORGE, and Assistant Professors RETTGER and TURNER.

MATERIALS OF CONSTRUCTION

22. **Materials Laboratory.** Sophomores. Either term, credit two hours. Must be preceded by, or taken with, courses 20 and 21 and must be taken with course 25. Assistant Professor MILLS, and Mr. CRANDALL.
25. **Materials of Construction.** Sophomores. Either term, credit three hours. Must be preceded by, or taken with, courses 20 and 21, and must be taken with course 22. Assistant Professor MILLS.
27. **Testing Materials.** Elective. Seniors and graduates. Second term, credit three hours. Prerequisite courses 22 and 25 or their equivalents. Assistant Professor MILLS and Mr. URQUHART.

HYDRAULIC ENGINEERING

30. **Water Supply.** Seniors. Either term, credit three hours. Prerequisite course 40. Courses 31, 32 and 33 are elaborations of details in this course.

31. **Hydraulic Construction.** Seniors and graduates. Second term, credit three hours. Should be taken after or concurrently with Water Supply, 30. Course 31 may be substituted for Engineering Design, Course 91.

32. **Water Power Engineering.** Seniors and graduates. First term, credit three hours. Prerequisite, C. E. 40, and must be taken after or concurrently with Course 30. Course 32 may be substituted for Engineering Design, Course 91.

33. **Pumps and Pumping.** Seniors and graduates. Second term, credit three hours. Prerequisite Course 40; should be preceded by or taken concurrently with course 30.

THEORETICAL AND EXPERIMENTAL HYDRAULICS

40. **Hydraulics.** Juniors. First term, credit three hours. Prerequisite courses 20 and 21. Assistant Professors SCHODER and TURNER.

41. **Advanced Hydraulics.** Elective for juniors and seniors. Second term, credit three hours. Prerequisite course 40. Assistant Professors SCHODER and TURNER.

42. **Hydraulic Measurements.** Elective for seniors and graduates. First term, credit three hours. Prerequisite courses 40 and 41. Assistant Professors SCHODER and TURNER.

43. **Experimental Hydraulic Motors and Pumps.** Elective for seniors and graduates. Second term, credit three hours. Prerequisite course 41. Assistant Professors SCHODER and TURNER.

44. **Experimental Hydraulic Investigation.** Elective for seniors and graduates. Either term, credit three hours (or more in special cases). Prerequisite courses 40 and 41, or equivalent. Assistant Professor SCHODER.

MUNICIPAL AND SANITARY ENGINEERING

50. **Sanitary Biology.** Juniors. Second term, credit five hours. Prerequisite Chemistry, course 6. Assistant Professor WALKER.

52. **Municipal Sanitation.** Juniors. Second term, credit three hours. Prerequisite course 40. Professor OGDEN and Assistant Professor WALKER.

53. **Purification and Control of Water Supplies.** Seniors and graduates. Second term, credit three hours. Prerequisite course 40. Professor OGDEN.

54. **Sewerage Works.** Seniors and graduates. First term, credit three hours. Prerequisite course 52. Three hours a week for 15 weeks. Professor OGDEN.

55. **Sanitary Laboratory.** Seniors. Second term, credit three hours. Prerequisite courses 50, 52, and Chemistry 6. This course offers a practical demonstration of some of the topics considered in courses 52, 53, and 54. Professor OGDEN.

56. **Municipal Engineering.** Elective. Graduates. Three hours. Professor OGDEN.

57. **Purification of Water.** Elective. Graduates. Three hours. Professor OGDEN.

58. **Conference on Present Methods of Sewage Disposal,** Elective. Graduates. Three hours. Professor OGDEN.

59. **A Laboratory Course for Graduates.** Professor OGDEN and Assistant Professor WALKER.

RAILROAD AND HIGHWAY ENGINEERING

60. **Railroad Surveying and Drawing.** Juniors. Throughout the year, credit four hours first term and one hour second term. Prerequisite course 13.

61. **Railroad Maintenance of Way.** Elective. Seniors and graduates. First term, credit three hours. Prerequisite course 60. Professor BARNES.

62. **Railroad Operation and Management.** Elective. Seniors and graduates. Second term, credit three hours. Prerequisite course 60. Professor BARNES.

63. **Railroad Location.** Elective. Juniors and Seniors. Credit three hours, second term. Professor BARNES.

65. **Highway Engineering.** Elective. Seniors and graduates. Either term, credit three hours. Prerequisite course 60. Assistant Professor CONWELL.

66. **Highway Laboratory.** Elective. Juniors and seniors. Either term, credit three hours. Assistant Professor CONWELL, Mr. PERRY.

67. **Engineering Construction.** Juniors. Second term. Credit three hours. Prerequisite 40 and first term of 71.

Professor BARNES, Assistant Professor CONWELL and Messrs. PERRY, CRANDALL, and MCANLIS.

BRIDGE ENGINEERING

71. **Structural Design and Bridge Stresses.** Juniors. First term, credit four hours. Prerequisite courses 20 and 21. Professor JACOBY, and Assistant Professor BURROWS.

71. **Second Term. Structural Design.** Juniors. Credit three hours. An elementary course in Steel Design. Professor JACOBY and Assistant Professor BURROWS.

72. **Reinforced Concrete Arch.** Seniors and graduates. Elective. Either term, credit three hours. This course may be substituted for engineering design, course 91 f. Prerequisite courses 20 and 21, and the first part of course 71. Assistant Professor BURROWS.

73. **Higher Structures.** Elective. Seniors and graduates. Either term, credit three hours. Prerequisite courses 20, 21 and 71. Professor JACOBY.

74. **Masonry and Foundations.** Seniors and graduates. Either term, credit three hours. Prerequisite courses 20 and 21. Professor JACOBY.

[75. **Bridge Design.** Elective. Seniors and graduates. Credit three hours. Prerequisite Course 71, both terms. Professor JACOBY and Assistant Professor BURROWS.] Not given in 1917-18.

76. **Steel Buildings.** Elective. Seniors and graduates. First term, credit three hours. Prerequisite courses 20, 21 and 71. This course may be substituted for Engineering Design, course 91. Mr. URQUHART.

77. **Concrete Construction.** Either term, credit three hours. Prerequisite Courses 20 and 21. Mr. URQUHART.

78. **Concrete Design.** Elective. Seniors and graduates. Second term, credit three hours. Prerequisite Course 77. This course may be substituted for Engineering Design, Course 91. Mr. URQUHART.

79. **Concrete Design.** Elective. Seniors and graduates. Either term, credit three hours. Prerequisite Course 77. This course may be substituted for Engineering Design, Course 91. Mr. URQUHART.

SPECIFICATIONS, DESIGNS, ETC.

89. **Cost Keeping and Management.** Elective. Seniors and graduates only. First term, credit two hours. Professor BARNES.

90. **Specifications and Contracts.** Seniors. Either term, credit two hours. Professor BARNES and Mr. CRANDALL.

91. **Engineering Design.** Seniors. Credit three hours. The student is required to make complete designs in one of the following subdivisions, subject to approval.

(c) **Hydraulic Engineering.** Second term. General prerequisite 40 (or former 23) and 29. For best results hydraulic design should be preceded by course 30, but the two may be taken concurrently. Course 31 or 32 may be substituted for Engineering Design. One or both of these courses should be elected by the student specializing in hydraulics unless he has a good reason for electing independent design instead. The purpose of the course is not to duplicate in large part work regularly given in Courses 31, 32 and 41 or in the courses in structural engineering. Assistant Professors SCHODER and TURNER.

(d) **Sanitary Engineering.** First term. This course must be preceded by or taken at the same time as course 54, and may not otherwise be elected. Professor OGDEN.

(e) **Railroad and Highway Engineering.** Second term. Professor BARNES, Assistant Professor CONWELL, and Messrs. PERRY and CRANDALL.

(f) **Bridge Engineering.** Second term. Course 71 is required as general preparation for engineering design in bridges and buildings. Course 73 is required in preparation for designs relating to draw, cantilever, suspension, and metallic arch bridges. Course 77 is similarly required for designs of bridges and buildings in reinforced concrete. Courses 72, 76, 78 and 79, may be substituted for engineering design. Professor JACOBY and Mr. URQUHART.

92. **Thesis.** Elective. Seniors. Credit three hours.

MEDALS AND PRIZES

The **Fuertes Medals**, two in number, are awarded annually on the recommendation of the Faculty of the College of Civil Engineering. For these medals see page 169.

The **Fuertes Memorial Prizes in Public Speaking** are awarded only to students in the Colleges of Civil Engineering, Mechanical Engineering, and Architecture. For these prizes see page 170.

The **William C. Seidell Book Fund**, of \$1,000, was founded by Gerrit S. Miller. The income is used for the purchase of books for poor young men who are working their way through the College of Civil Engineering. Preference is given to members of the freshman class.

The **Charles Lee Crandall Prizes**, founded in 1916 by Alumni of the College of Civil Engineering, consist of a first prize of one hundred dollars and a second prize of about twenty-five dollars. For these prizes see page 170.

SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND THE MECHANIC ARTS

For detailed information concerning the work of Sibley College, candidates for admission to that college should consult the Announcement of Sibley College which will be sent gratis on application to the Secretary of the University.

FACULTY

- JACOB GOULD SCHURMAN, A.M., D.Sc., LL.D., President.
- ALBERT WILLIAM SMITH, B.M.E., M.M.E., Dean of the Faculty and Professor of Power Engineering. (Absent on leave.)
- DEXTER SIMPSON KIMBALL, A.B., M.E., Acting Dean of the Faculty and Professor of Machine Design and Industrial Engineering.
- EARL EDMUND FERRIS, A.B., Secretary of Sibley College.
- ROLLA CLINTON CARPENTER, M.S., C.E., M.M.E., LL.D., Emeritus Professor of Experimental Engineering.
- GEORGE ROBERT McDERMOTT, Professor of Structural Design. (Absent on leave.)
- HERMAN DIEDERICHs, M.E., Professor of Experimental Engineering.
- ALEXANDER GRAY, B.S. in C.E., M.S. in E.E., Whitworth Scholar, Professor of Electrical Engineering.
- WILLIAM NICHOLS BARNARD, M.E., Professor of Power Engineering. (Absent on leave.)
- VLADIMIR KARAPETOFF, C.E., M.M.E., Professor of Electrical Engineering.
- EDGAR HARPER WOOD, M.E., M.M.E., Professor of Mechanics of Engineering.
- CALVIN DODGE ALBERT, M.E., Professor of Machine Design. (Absent on leave.)
- ALBERT EDWARD WELLS, Professor of Machine Construction.
- FRANK OAKES ELLENWOOD, A.B., Professor of Power Engineering. (Absent on leave.)
- WILL MILLER SAWDON, B.S. in M.E., M.M.E., Assistant Professor of Experimental Engineering, Assigned to Engineering Research.
- GEORGE BURR UPTON, M.E., M.M.E., Assistant Professor of Experimental Engineering.
- LESLIE DAVID HAYES, B.S., M.E., Assistant Professor of Machine Design. (Absent on leave.)
- SEYMOUR STANTON GARRETT, C.E., Assistant Professor of Mechanics of Engineering. (Absent on leave.)
- VICTOR RAYMOND GAGE, M.E., M.M.E., Assistant Professor of Experimental Engineering.
- ROBERTSON MATTHEWS, M.E., Assistant Professor of Power Engineering.
- CLARENCE WALTER HAM, B.M.E., M.E., Assistant Professor of Machine Design. (Absent on leave.)
- MYRON A. LEE, M.E., M.M.E., Assistant Professor of Machine Design.
- JOHN GEORGE PERTSCH, JR., M.E., Assistant Professor of Electrical Engineering.
- CLARENCE ANDREW PEIRCE, A.B., M.E., Assistant Professor of Power Engineering. (Absent on leave.)
- JOSEPH FRANKLIN PUTNAM, M.E., Assistant Professor of Electrical Engineering.
- CHARLES HAROLD BERRY, M.E., M.M.E., Assistant Professor of Power Engineering.

FREDERICK GEORGE SWITZER, M.E., M.M.E., Assistant Professor of Hydraulics.
WILLIAM CYRUS BALLARD, JR., M.E., Assistant Professor of Electrical Engineering.

WALTER RODNEY CORNELL, C.E., B.S., Instructor in Mechanics of Engineering.

CLARENCE ELLSWORTH TOWNSEND, M.E., Instructor in Machine Design.

ROBERT FRANKLIN CHAMBERLAIN, M.E., Instructor in Electrical Engineering.

HAROLD WARNER BROWN, B.S., M.M.E., Instructor in Electrical Engineering.

ENOCH FRANCIS GARNER, M.E., Instructor in Machine Design.

ROY EDWARDS CLARK, M.E., Instructor in Power Engineering.

LOUIS JACQUELIN BRADFORD, B.S., M.E., Instructor in Machine Design.

PERCY GEORGE MCVETTY, M.E., Instructor in Engineering Research. (Absent on leave.)

FRED STILLMAN ROGERS, B.S., M.E., Instructor in Machine Design.

EDWIN RICHARD PAGE, B.S. in E.E., Instructor in Electrical Engineering.

JAMES HOMER HOTCHKISS, A.M., M.M.E., Instructor in Mechanics of Engineering.

HAROLD CHARLES PERKINS, M.E., Instructor in Mechanics of Engineering.

WILLIAM EMERSON MORDOFF, M.E., Instructor in Machine Design.

HUGO N. DIEDERICHS, Instructor in Machine Design.

FREDERICK WILLIAM ARMBRUSTER, JR., B.S., Instructor in Machine Design.

GEORGE FRANCIS BASON, B.E., M.E., Instructor in Electrical Engineering.

RALPH BERRY STEWART, B.S., M.E., Instructor in Electrical Engineering.

MARTIN COLLINS HUGHES, B.S., Instructor in Electrical Engineering.

GEORGE AUSTIN WORN, Instructor in Machine Design.

BLIN SILL CUSHMAN, B.S., Instructor in Research Engineering.

RAY LEWIS QUICK, M.E., Instructor in Experimental Engineering.

LAWRENCE RICHARDSON, JR., M.E., Instructor in Experimental Engineering.

ROBERT DEANE ELLIOTT, B.S. in E.E., Instructor in Electrical Engineering.

JOHN BERRY JOYCE, B.S., Instructor in Electrical Engineering.

CLINTON RUSSELL TOBEY, Instructor in Machine Design.

CARLOS ELMER HARRINGTON, Instructor in Machine Design.

THOMAS FORD STACY, Instructor in Machine Design.

SHURLEY RUSSELL IRISH, Instructor in Machine Design.

JAMES EUGENE VANDERHOEF, Foreman of Foundry.

WALTER LISTON HEAD, Foreman of Forge Shop.

LEROY HOOPER, Foreman of Pattern Shop.

BIRDETTE NEWTON HOWE, Assistant in Machine Shop.

HOWARD STANLEY BUSH, Assistant in Pattern Shop.

CHARLES ALBERT BROOKS, Assistant in Forge Shop.

DEWARD ARMENIAS EVANS, Assistant in Foundry.

WILLIAM FREDERICK HEAD, Assistant in Forge Shop.

PAUL LESLIE GARVER, Assistant in Machine Design.

DANA BUSH GREEN, Assistant in Machine Shop.

DAVID HOUSER BANKS, B.S., Assistant in Electrical Engineering.

FRANCIS JOHN NANKIVELL, Assistant in Machine Design.

ROBERT EDGAR BUSSEY, Assistant in Experimental Engineering.

HENRY ARTHUR COLLIN, Assistant in Experimental Engineering.

HENRY ARTHUR GAERTNER, Assistant in Experimental Engineering.

WALTER LEE JOHNSON, JR., Assistant in Experimental Engineering.

BERTRAM NIRENBERG, Assistant in Experimental Engineering.

FRANZ HENRY REIMER, Assistant in Experimental Engineering.

HERMENEGILDO BALBINO REYES, B.A., Assistant in Power Engineering.

LEO BEHR, Assistant in Power Engineering.

THE DEGREE OF MECHANICAL ENGINEER

For admission to Sibley College, see page 39; for tuition and fees in Sibley College, see page 46.

The undergraduate instruction for students in Sibley College leads to the degree of Mechanical Engineer, the requirement for which is the completion of one of the following curricula. For the requirements in military science and tactics and in physical culture see page 174.

1. The curriculum of four years in mechanical and electrical engineering.
2. The curriculum of four years in subjects related to mining engineering.
3. The curriculum of five years in mechanical and electrical engineering.
4. The curriculum of five years in subjects related to mining engineering.
5. The curriculum of six years in Arts and Sciences and Mechanical Engineering.

1. The Curriculum of Four Years in Mechanical and Electrical Engineering

In the curriculum of four years leading to the degree of Mechanical Engineer, instruction is the same for all students during the first three years. In the fourth year, some opportunity is afforded for specializing in the different branches of mechanical and electrical engineering.

NOTE. In referring to courses the following abbreviations are used: Shop, S; Machine Design, D; Mechanics of Engineering, M; Power Engineering, P; Experimental Engineering, X; Electrical Engineering, E; Industrial Engineering, I.

Freshman Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Analytic Geometry and Calculus	6	6	6
Chemistry	1	0	6
Physics	3, 8	6	2
Drawing and Desc. Geom.	D 1, 2	3	3
Foundry	S3	2 or 0	0 or 2
Forge	S4	0 or 1	1 or 0
Engineering Principles	P1	1	1 or 0
Military Drill	1	1	1

Sophomore Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Mechanics of Engineering	M5, 6	5	5
Physics, Recitations	9	2	0
Physics, Laboratory	14	2	2
Electrical Engineering	E 5	0	2
Chemistry	6	0 or 5	5 or 0
Kinematics	D6	0	2
Drawing	D5, 7	3	3
Materials	X6	3 or 0	0 or 3
Pattern Making	S7	3 or 0	0 or 3
Military Drill	1	1	1

Junior Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Heat-Power Engineering	P10	3	3
Electrical Engineering	E14	2	2
Electrical Engineering	E15	2	2
Mechanical Laboratory	X10, 11	3	3
Machine Design—(a) Drawing	D10	2	2
(b) Lectures and Recitations	D16	3	3
Machine Work	S10	2	2
Industrial Organization	I12	0	0
Hydraulics	M12	2	2

Senior Year

In the senior year the regular student must complete one of the options:

Option A: Senior Electrical Engineering Option:—

Course	No. Course	Hours 1st Term	Hours 2d Term
Power Plant Design	P20	3	3
Mechanical Laboratory	X 22	2	0
Economics	52	2	2
Electrical Machinery	E 20	2	2
Electrical Machinery	E 21	3	3
Electrical Design	E 22	2	2
Electrical Laboratory	E 28	4	4
Electives (or Thesis, X 32)		2	2

Option B: Senior Heat-Power Engineering Option:—

Course	No. Course	Hours 1st Term	Hours 2d Term
Power Plant Design	P20	3	3
Mechanical Laboratory	X20, 21	3	3
Electrical Engineering	E 36	2 or 0	0 or 2
Electrical Engineering	E 37	0 or 2	2 or 0
Economics	52	2	2
Heat-Power Machinery Design	P 23	3	3
Drawing and Design	P 24	2	2
Gas Manuf. or Stm. Turbines	P28 or 25	0	2
Elective (or Thesis, X 32)		4	2

Option C: Senior Structural and Plant Engineering Option:—

Course	No. Course	Hours 1st Term	Hours 2d Term
Power Plant Design	P 20	3	3
Mechanical Laboratory	X20, 21	3	3
Electrical Engineering	E 36	2 or 0	0 or 2
Electrical Engineering	E 30	0 or 2	2 or 0
Economics	52	2	2
General Engineering Design	D 22	2	2
Drawing and Design	D 23	3	3
Elective (or Thesis, X 32)		4	4

Option D: Senior Ship Design and Construction Option:—

Course	No. Course	Hours 1st Term	Hours 2d Term
Power Plant Design	P20	3	3
Mechanical Laboratory	X20, 21	3	3
Electrical Engineering	E36	2 or 0	0 or 2
Electrical Engineering	E37	0 or 2	2 or 0

Course	No. Course	Hours 1st Term	Hours 2d Term
Economics	52	2	2
Ship Design	D25	3	3
Speed and Power of Ships	D26	0	2
Drawing and Computation	D27	3	3
Specifications, Contracts, etc	D28	2	0
Elective		0	2

Option E: Senior Industrial Engineering Option:—

Course	No. Course	Hours 1st Term	Hours 2d Term
Power Plant Design	P 20	3	3
Mechanical Laboratory	X20, 21	3	3
Electrical Engineering	E36	2 or 0	0 or 2
Electrical Engineering	E37	0 or 2	2 or 0
Industrial Administration	I20	2	2
Drawing and Design	I22	3	3
Safety Engineering and Fire Protection	I23	0	2
Accounting	58a	3	0
Electives		0	3

2. The Curriculum of Four Years in Subjects Related to Mining Engineering

Freshman Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Analytic Geometry and Calculus	6	6	6
Chemistry, Introductory Inorganic	Chem. 1	6	0
Chemistry, Qualitative Analysis	" 7	0	6
Physics	Phys. 2, 7	5	3
Forge	S4	0	2
Military Drill	I	1	1

Sophomore Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Mechanics of Engineering	M5, 6	5	5
Chemistry, Quantitative Analysis	Chem. 12	0	6
Physics Laboratory	Phys. 14	4	0
Crystallography	Geol. 12	3	0
Mineralogy	" 13	0	3
Dynamic and Historic Geology	" 1, 21	3	3
Drawing	DI, 2	3	3
Military Drill	I	1	1

Junior Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Kinematics	D6	0	2
Drawing	D5, 7	3	3
Electrical Engineering	E51	0	2
Heat-Power Engineering	P10	3	3
Metallurgy of Iron and Steel	X 6	3	0
General Econ. Geology	Geol. 32	3	3
Mining of Mineral Deposits	" 34	3	3
Surveying	C.E. 10, 11	3	4
Summer Field Work in Mining	Geol. 39	3	0

Senior Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Assaying.....	Chem.18	3	0
Blowpipe Determination of Minerals	Geol. 14	1	0
Machine Design—			
(a) Drawing	D10	2	2
(b) Lectures and Recitations	D16	3	3
Mining Methods and Design	D39	2	2
Mechanical Laboratory	X10, 11	3	3
Hydraulics	M12	0	2
Examination of Mineral Deposits	Geol. 33	0	2
Electrical Engineering	E14	2	2
Electrical Engineering	E15	2	2
Machine Work	S10	0	2

3. The Curriculum of Five Years in Mechanical and Electrical Engineering

First Year

Course	No. Course	Hours 1st Term	Hours 2d Term
English	1	4	4
Advanced Algebra†.....	2	5	0
Solid Geometry†	1	0	3
Trigonometry†	3	0	3
Chemistry	1	0	6
Engineering Principles	P1	1	0
Forge Shop.....	S4	0	1
Foundry	S3	2	0
Elective in Arts and Sciences		5	0
Military Drill	1	1	1

Second Year

Course	No. Course	Hours 1st Term	Hours 2d Term
Analytical Geometry and Calculus	6	6	6
Chemistry	6	5	0
Physics	3	0	6
Drawing	D1, 2	3	3
Elective in Arts and Sciences		3	2
Military Drill	1	1	1

Third Year

Course	No. Course	Hours 1st term	Hours 2d term
Mechanics of Engineering	M5, 6	5	5
Physics, Recitations	8, 9	2	2
Physics, Laboratory	14	2	2
Electrical Engineering	E5	0	2
Kinematics	D6	0	2
Drawing	D5, 7	3	3
Materials	X6	3	0
Pattern Making	S7	0	3
Elective in Arts		3	0

Fourth and Fifth Years

The fourth and fifth years are identical with the third and fourth years of the curriculum of four years.

†If credited in this subject at the time of admission, an equivalent number of hours may be elected in some other subject.

4. The Curriculum of Five Years in Subjects Related to Mining Engineering

This curriculum leads to the degree of Mechanical Engineer, and it is possible for those pursuing it not only to complete the subjects listed in the four-year course relating to Mining Engineering but also to take substantially all of the additional subjects given in the curriculum of four years in Mechanical Engineering.

5. The Curriculum of Six Years in Arts and Sciences and Mechanical Engineering

In accordance with the rules of the College of Arts and Sciences, qualified seniors in that college may take their senior year in Sibley College, receiving the degree of A.B. at the end of the year. If by their privileges of election of subjects in the College of Arts and Sciences, these seniors have during their first three years completed the required freshman subjects in engineering, they may thus, by the end of their fourth year of residence, complete the engineering subjects required in the sophomore year. The fifth year and the sixth year of residence, with registration in Sibley College, will then be the junior year and the senior year respectively of the curriculum of four years in Sibley College.

ELECTIVES

Students having the necessary preparation and having the approval of their class adviser may take any of the subjects in the following lists. The choice of studies is not limited to those here listed; the student may, with the approval of his class adviser and of the department concerned, take any subject in any department in the University.

A. ELECTIVE SUBJECTS OPEN TO FRESHMEN

German, French, Spanish, Greek, Latin, English, Roman History, English History, History of Civilization, Bibliography, Music, Biology, Botany, Entomology, Zoology, Physiology, Photography, Agriculture, Law, Geology, Mining, Public Speaking, Surveying, Freehand Drawing and the freshman engineering subjects given on page 153.

B. GENERAL ELECTIVES

Differential Equations (Calculus), 41; Surveying (Trigonometry), C.E. 12; Spec. and Contracts (3 or 4), C.E. 90; Assaying (Chem. 6), Chem. 18; Adv. Quant. Anal. (Chem. 6), Chem. 14; Adv. Quant. Anal. Lectures (Chem. 6), Chem. 15; Qual. and Quant. Gas Anal. (Chem. 6), Chem. 19; Tech. Gas Anal. (Chem. 6), Chem. 20; Chemistry of Gases (Chem. 6), Chem. 49; Photometry and Illumination (Physics 14), Phys. 26; Photometry and Illumination (Physics 14); Phys. 43; Photography (2), Phys. 18; Elementary and Historic Geology, Geol. 1, 21; Bldg. Stone and Clay Products, Geol. 30; Engineering Geology, Geol. 31; Mineralogy (Chem. 1), Geol. 11; Mining of Mineral Deposits, Geol. 34; Economics, Elementary (2), 52 or 51; Economics: Accounting, Business Law, Corporations and Trusts, Money and Banking, Labor Problems, Railway Transportation, Public Utilities, Government Control of Industries, etc. (Econ. 51 or 52, is required for most of these.); Aesthetics, Archeology, Astronomy, Ethics, Philosophy, Logic, Psychology, Military Science, and advanced courses in subjects given in List A, above.

C. TECHNICAL ELECTIVES FOR SENIORS ONLY

Thesis, X32; Steam Boiler Design, P30; Steam Turbines, P25; Gas Manuf. and Distribution, P28; Gas Power Machinery, P29; Advanced Heat-Power Engineering, P40; Refrigeration, P31; Motor Car Construction, P32; Heating and Ventilating, P33; Engineering Research, X30; Power Plant Testing, X31;

Engineering Notes, D24; Speed and Power of Ships, D26; Advanced Designing, D40; Industrial Administration, I20; Safety Engineering and Fire Protection, I23; Advanced Industrial Engineering, I40; Central Stations, E 23; Elem. of Elect. Ry. Pract., E25; Wireless Telegraphy, E27; Special Elect. Eng. Problems, E33; Engineering Mathematics, E30; Hydraulic Turbines, M21; Railway Cons. and Maintenance, C.E. 63; Concrete Construction, C.E. 77; Alternating Currents, Phys. 33; Electrical Lab. Practice, Phys. 34; Sibley Journal Credit, X40.

SCHOLARSHIPS AND PRIZES

The **Sibley Prize in Mechanic Arts**, the **Frank William Padgham Scholarship**, the **Fred Lewis Wilson Scholarship**, and the **Wurts Loan Fund**, are awarded only to students in Sibley College; the **Fuertes Memorial Prizes in Public Speaking** are awarded only to students in the two colleges of engineering and in the College of Architecture. For these and for the prizes and scholarships that are open to all students of the University, see page 165.

COURSES OF INSTRUCTION

From two and one-half to three hours in shops, laboratories, computation work, or drawing count as one credit hour in the schedule.

DEPARTMENT OF MACHINE CONSTRUCTION

S. 3. **Foundry Work.** Freshmen. Either term, credit two hours. Messrs. VANDERHOEF and EVANS.

S. 4. **Forge Work.** Freshmen. Either term, credit one hour. Messrs. HEAD and BROOKS.

S. 7. **Pattern Making.** Sophomores. Either term, credit three hours. Prerequisite course S. 3. Messrs. HOOPER, BUSH, and PRICE.

S. 10. **Machine Work.** Juniors. Throughout the year, two hours credit a term. Prerequisite courses S. 3, 4, and 7. Professor WELLS, and Messrs. HOWE, BUCK, and BLOCK.

DEPARTMENT OF MACHINE DESIGN

D. 1. **Drawing.** Required of freshmen. First term, credit three hours. Assistant Professor HAM, and Messrs. ARMBRUSTER, DIEDERICH, HARRINGTON, HOUGH, and MORDOFF.

D. 2. **Descriptive Geometry.** Required of freshmen. Second term, credit three hours. Assistant Professor HAM and Instructors as in D. 1.

D. 3. **Drawing.** For students registered for the degree of Bachelor of Chemistry. First term, credit three hours. Assistant Professor HAM, and Messrs. HARRINGTON, and HOUGH.

D. 5. **Machine Drawing.** Sophomores. First term, credit three hours. Prerequisite courses D. 1 and 2. Assistant Professor HAYES and Messrs. ANDRAE, and WORN.

D. 6. **Kinematics.** Sophomores. Second term, credit two hours. Prerequisite courses D. 1 and 2, and must be taken with course D. 7. Assistant Professor HAYES, and Messrs. ANDRAE, and WORN.

D. 7. **Kinematic Drawing.** Sophomores. Second term, credit three hours. Prerequisite courses D. 1 and 2, and must be taken with course D. 6. Assistant Professor HAYES, and Messrs. ANDRAE and WORN.

D. 10. **Drawing and Design.** Juniors. Throughout the year, credit two hours each term. Prerequisite courses D. 5, D. 6, D. 7, M. 5 and 6, and must be taken with course D. 16. Professors KIMBALL and ALBERT, and Messrs. BRADFORD, GARNER, and ROGERS.

D. 16. **Machine Design.** Juniors. Throughout the year, credit three hours a term. One lecture and two recitations a week. Prerequisite courses D. 5, 6, 7, M. 5 and 6, and must be taken with D. 10. Professors KIMBALL and ALBERT, and Messrs. BRADFORD, GARNER, and ROGERS.

D. 22. **General Engineering Design.** Required of seniors in Option C. Throughout the year, credit two hours a term. Prerequisite courses D. 10, D. 16, and P. 10, and must be taken with D. 23. Assistant Professor LEE and Mr. TOWNSEND.

D. 23. **Drawing and Design.** Nine hours of work a week throughout the year, credit three hours a term. Prerequisite Courses D. 10 and 16 and P. 10, and may only be taken in connection with D. 22. Assistant Professor LEE and Mr. TOWNSEND.

D. 24. **Engineering Notes.** Elective for seniors. Second term, credit two hours. Prerequisite courses D. 10 and 16. Professor McDERMOTT.

[D. 25. **Ship Design.** Required of seniors in Option D. Lectures throughout the year, credit three hours a term. Prerequisite courses D. 10 and 16. Professor McDERMOTT.] Not given in 1917-18.

[D. 26. **Speed and Power of Ships.** Required of seniors in Option D. Second term, credit two hours. Prerequisites D. 10 and 16. Professor McDERMOTT.] Not given in 1917-18.

[D. 27. **Design and Drawing.** Required of seniors in Option D. Throughout the year, credit three hours a term. Must be accompanied by D. 25. Professor McDERMOTT.] Not given in 1917-18.

D. 28. **Specifications, Contracts, etc.** Required of seniors in Option D. First term, credit two hours. Prerequisite courses D. 10 and 16. Professor McDERMOTT.

D. 39. **Mining Methods and Designs.** Required of all seniors in mining; not open to others. Credit two hours per term. Professor KIMBALL.

D. 40. **Advanced Designing.** For graduates who have had the equivalent of D. 22 and D. 23, or of D. 25, 26, and 27. Professors KIMBALL, McDERMOTT, and ALBERT.

DEPARTMENT OF MECHANICS OF ENGINEERING

M. 5 and 6. **Mechanics of Engineering.** Sophomores. M. 5 in first term, M. 6 in second term. Credit five hours a term. Prerequisite course Mathematics 6. Professor WOOD, Assistant Professor GARRETT, and Messrs. CORNELL, HOTCHKISS, PERKINS and SWITZER.

M. 12. **Hydraulics.** Juniors. Second term, credit two hours. Prerequisite courses, M. 5 and 6. Messrs. SWITZER and PERKINS.

M. 21. **Hydraulic Turbines.** Elective. First term, credit two hours. Prerequisite course M. 12. Mr. SWITZER.

DEPARTMENT OF HEAT-POWER ENGINEERING

P. 1. **Engineering Principles.** Freshmen. Either term as assigned, credit one hour. Professor SMITH.

P. 10. **Elementary Heat-Power Engineering.** Required of all juniors. Throughout the year, credit three hours a term. Prerequisite courses Physics 8, 9, and 14, Chemistry 6, M. 5 and 6, and D. 5, 6, and 7. Professor ELLENWOOD, and Messrs. CLARK, BANKS and GATES.

P. 11. **Heat Engines and Auxiliaries.** Required of C. E. seniors. Either term, credit three hours. Not open to Sibley students. Prerequisite courses Physics 2 and 7, (or the equivalent), Chemistry 1, C. E. 20. Professor ELLENWOOD, and Assistant Professor BERRY.

P. 20. **Power Plant Design.** Required of all regular seniors. Throughout the year, credit three hours a term. Prerequisite course P. 10. Professor SMITH, Assistant Professor MATTHEWS and BERRY.

P. 23. **Heat-Power Machinery Design.** Required of seniors in Option B. and not open to others. Throughout the year, credit three hours a term. Prerequisite courses D. 10, D. 16 and P. 10, and must be accompanied by course P. 24. Professor BARNARD and Assistant Professor PEIRCE.

P. 24. **Designing and Drawing.** Required of seniors in Option B, and not open to others. Throughout the year, credit two hours a term. Prerequisite courses D. 10, D. 16 and P. 10 and must be accompanied by P. 23. Professor BARNARD and Assistant Professor PEIRCE.

P. 25. **Steam Turbines.** Senior elective. Required of those taking the design of steam engines in P. 24. Second term, credit two hours. Prerequisite course P. 10. Professor BARNARD.

P. 28. **Gas Manufacture and Distribution (General).** Seniors. Required of those taking design of internal combustion engines in P. 24. Second term, credit two hours. Prerequisite courses D. 10, D. 16, and P. 10. Assistant Professor PEIRCE.

P. 29. **Gas Power Machinery (General).** Seniors. First term, credit two hours. Not open to students taking Option B. Prerequisite courses D. 10, D. 16, and P. 10. Assistant Professor PEIRCE.

P. 30. **Steam Boiler Design.** Seniors. First term, credit two hours. Prerequisite courses D. 10, D. 16, and P. 10. Professor BARNARD.

P. 31. **Refrigeration and Refrigerating Machinery,** Elective. Second term, credit two hours. Prerequisites P. 10, D. 10, 16. Assistant Professor PUTNAM.

P. 32. **Motor Car Construction.** Elective. Second term, credit two hours. Prerequisites P. 10, D. 10, 16. Assistant Professor UPTON.

P. 33. **Heating and Ventilating.** Elective. Second term, credit two hours. Prerequisites P. 10, D. 10, 16. Assistant Professor SAMPSON.

P. 40. **Advanced Heat-Power Engineering.** Elective for those who have completed the equivalent of the design subjects in senior Option B. Professors SMITH and BARNARD.

P. 41. **Readings in English Literature.** Open to juniors and seniors in Sibley College. Two readings a week from Thanksgiving to Easter recess; one hour credit. Professor SAMPSON.

DEPARTMENT OF EXPERIMENTAL ENGINEERING

A. Mechanical Laboratory Division

X. 6. **Manufacture of Engineering Materials.** Required of sophomores. First or second term, credit three hours. Prerequisite course Chemistry 1. Professor DIEDERICHs.

X. 10. **Mechanical Laboratory—Properties of Engineering Materials.** Juniors. First term, credit three hours. Prerequisite courses X. 6, M. 5 and 6. Assistant Professor UPTON.

X. 11. **Mechanical Laboratory—Introductory Experimental Engineering.** Juniors. Second term, credit three hours. Prerequisite courses M. 5 and 6. Chem. 6, Phys. 3. Assistant Professor UPTON.

X. 12. **Mechanical Laboratory.** For students in Chemical course. Second term only, credit four hours. Prerequisite courses M. 5, and Phys. 10 and 14. Assistant Professor GAGE.

X. 20. **Mechanical Laboratory—Experimental Engineering.** M. E. Seniors. First term, credit three hours. Prerequisite courses X. 10, 11, P. 10. Assistant Professor GAGE.

X. 21. **Mechanical Laboratory—General Experimental Engineering.** Seniors in M. E. Second term, credit three hours. Assistant Professor GAGE.

X. 22. **Mechanical Laboratory.** Required of Seniors in the Electrical Engineering Option. First term, credit two hours. Prerequisites X. 10, 11 and P. 10. Assistant Professor GAGE.

B. Engineering Research Division

X. 30. **Engineering Research.** Elective. Either or both terms; credit one hour for forty hours of actual work. Open to a limited number of seniors and graduates. Professor DIEDERICHs, Assistant Professors SAWDON and UPTON, and Mr. MCVETTY.

X. 31. **Power Plant Testing.** Elective. Either term, credit one hour for forty hours of actual work. Open to a limited number of seniors. Professor DIEDERICHs, Assistant Professors SAWDON and UPTON, and Mr. MCVETTY.

X. 32. Thesis. Senior elective. Either or both terms, maximum total credit eight hours. Professor DIEDERICH, Assistant Professors SAWDEN and UPTON, and Mr. MCVETTY.

X. 40. Sibley Journal Credit. Undergraduate members of the Sibley Journal Board may receive not to exceed two hours of University credit in each term of their senior year (i.e. a maximum credit of four hours) for work satisfactorily done for The Sibley Journal, provided they are elected to the Board in their Sophomore year, or before, and continue as active members on it to the end of the term in which credit is desired.

DEPARTMENT OF ELECTRICAL ENGINEERING

E. 5. Introductory Course in Electrical Engineering. Required of all sophomores. Second term only, credit two hours. Prerequisite courses Physics 3 and Math. 6. Professor GRAY.

E. 12. Essentials of Electrical Engineering. Required of seniors in the civil engineering and chemistry courses. First term only, credit four hours. Assistant Professor PUTNAM and Messrs. BALLARD and COTA.

E. 14. Elementary Electrical Engineering. Required of all juniors in the regular course, and of seniors in mining. Throughout the year, credit two hours per term. Prerequisite courses Physics 8, 9, 14, M. 5, 6, E5. Must be accompanied by E. 15. Professor GRAY and Mr. BASON.

E. 15. Elementary Electrical Engineering. Required of all juniors in the regular course, and of seniors in mining. Throughout the year, credit two hours per term. Prerequisite courses Physics 8, 9 and 14, M. 5 and 6. Must be accompanied by E. 14. Professor GRAY and Messrs. PAGE, HUGHES and COTA.

E. 20. Theory of Electrical Machinery. Required of seniors in Option A. Throughout the year, credit two hours a term. Prerequisite courses E. 14 and 15. Professor KARAPETOFF.

E. 21. Characteristics of Electrical Machinery. Required of seniors in Option A. Throughout the year, credit three hours a term. Prerequisites courses E. 14 and 15. Professor KARAPETOFF, Assistant Professor PERTSCH and Mr. ———.

E. 22. Electrical Design. Required of seniors in Option A. Throughout the year, credit two hours a term. Must be accompanied by E. 20 and E. 21. Professor GRAY, Assistant Professor PERTSCH.

E. 23. Central Stations. Elective for seniors in E. E. Second term only, credit two hours. Assistant Professor PUTNAM.

E. 25. Elements of Electric Railway Practice. Elective for seniors. Second term only, credit two hours. Prerequisite courses E. 14 and 15. Mr. CHAMBERLAIN.

E. 27. Wireless Telegraphy and Telephony. Elective for seniors in electrical engineering. Second term only, two hours credit. Prerequisite courses first term of E. 20, E. 21, and E. 28. Mr. BALLARD.

E. 28. Senior Electrical Laboratory. Required of seniors in electrical engineering (Option A). Throughout the year, credit four hours a term. Must be accompanied by E. 20 and E. 21. Assistant Professor ———, Messrs. CHAMBERLAIN and STEVENS.

E. 30. Engineering Mathematics. Elective. Open to seniors and graduate students only. Throughout the year, credit two hours per term. Professor KARAPETOFF and Mr. DEANS.

E. 33. Special Electrical Engineering Problems. First or second term or both. Credit two or more hours. Open to seniors. Professor KARAPETOFF, and other instructors as required.

E. 36. Electrical Engineering for M.E. Seniors. Required of Sibley seniors who take Options B. to E. inclusive. Not to be taken simultaneously with E. 37. Two hours credit; repeated in the second term. Prerequisite courses X. 11, E. 14 and E. 15. Professor GRAY, Assistant Professor PUTNAM and Mr. BROWN.

E. 37. Electrical Engineering for M.E. Seniors. Required of Sibley seniors who take options B to E inclusive. Not to be taken simultaneously with E. 36. Two hours credit; repeated in the second term. Prerequisite courses X. 11, E. 14 and E. 15. Assistant Professor PUTNAM and Mr. STEWART.

Seminar in Electrical Engineering. For seniors and graduate students. No credit. Conducted by Professors GRAY and KARAPETOFF.

[NOTE.—For other electrical and illumination courses see under Physics in the Announcement of Courses in the College of Arts and Sciences.]

DEPARTMENT OF INDUSTRIAL ENGINEERING

I. 12. Industrial Organization. Required of all juniors in Sibley College and not open to freshmen or sophomores. Open to juniors and seniors of other colleges. First term, credit two hours. Professor KIMBALL and Mr. MEYLER.

I. 20. Industrial Administration. Required of all seniors in Option E. Elective for seniors pursuing other options. Credit two hours per term. Prerequisite course I. 12. Professor KIMBALL and Mr. MEYLER.

I. 22. Drawing and Design. Required of all seniors in Option E. Credit three hours per term. Prerequisite courses D. 10 and D. 16, and must be accompanied by I. 20. Professor ALBERT and Mr. MEYLER.

I. 23. Safety Engineering and Fire Protection. Required of all seniors in Option E. May be elected by seniors pursuing other options. Two hours credit. Prerequisite course I. 12. Professor WELLS.

I. 40. Advanced Industrial Engineering. Open to graduates and seniors who have completed the equivalent of I. 20 and 22. Professors KIMBALL, WELLS and ALBERT.

THE UNIVERSITY LIBRARY

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The University Libraries comprise the General Library of the University, the Law Library, the Architectural Library, the Chemical Library, Sibley College Library, Civil Engineering Library, the Flower Veterinary Library, the Barnes Reference Library, the Goldwin Smith Hall Library, the Stimson Hall Medical Library, and the Library of the New York State College of Agriculture.

The total number of bound volumes in the University Library is now about five hundred thousand and the annual additions number about fifteen thousand volumes.

The Library Building, is the gift of the late Hon. Henry W. Sage. The general reading rooms contain accommodations for two hundred and seventy readers, and the open book cases around the rooms provide shelf-room for twelve thousand volumes. In the tower are the great bell of the University, the gift of Mrs. Mary White, and the chime of bells, the gift of Mrs. Jennie McGraw Fiske.

The income of an endowment fund of three hundred thousand dollars, given by the late Henry W. Sage in 1891, is devoted to the purchase of books and periodicals. The income of an endowment fund of five hundred and three thousand dollars, received in 1906 by the bequest of the late Willard Fiske, is to be expended for the uses and purposes of the Library, with specific provision for the maintenance and increase of the Icelandic and the Italian collections. At present one-third of the free income from this fund is used for the purchase of books and periodicals, and for binding.

Among the more important special collections in the General Library are: the ANTHON LIBRARY, of nearly seven thousand volumes, the collection made by the late Professor Charles Anthon, of Columbia College, in the ancient classical languages and literatures, besides works in history, and general literature; the BOPP LIBRARY, of about twenty-five hundred volumes, relating to the oriental languages and literatures, and comparative philology, being the collection of

the late Professor Franz Bopp of the University of Berlin; the GOLDWIN SMITH LIBRARY, of thirty-five hundred volumes, comprising chiefly historical works and editions of the English and ancient classics, presented to the University in 1869 by the late Professor Goldwin Smith, and increased during later years by the continued liberality of the donor; the publications of the Patent Office of Great Britain, about three thousand volumes; the WHITE ARCHITECTURAL LIBRARY, a collection of over twelve hundred volumes relating to architecture and kindred branches of science, given by ex-President White; the KELLY MATHEMATICAL LIBRARY, comprising eighteen hundred volumes and seven hundred tracts, presented by the late Hon. William Kelly, of Rhinebeck; the SPARKS LIBRARY, being the library of Jared Sparks, sometime President of Harvard University, consisting of upward of five thousand volumes and four thousand pamphlets, relating chiefly to the history of America; the MAY COLLECTION, relating to the history of slavery and anti-slavery, the nucleus of which was formed by the gift of the library of the late Rev. Samuel J. May, of Syracuse; the SCHUYLER COLLECTION of folk-lore, Russian history and literature, presented by the late Hon. Eugene Schuyler in 1884; the PRESIDENT WHITE HISTORICAL LIBRARY, of about twenty thousand volumes, the gift of ex-President White, received in 1891, especially rich in the primary sources of history, and containing notable collections on the period of the Reformation, on the English and French Revolutions, on the American Civil War, and on the history of superstition; the SPINOZA COLLECTION, numbering four hundred and fifty volumes presented in 1894, by ex-President White; the four remarkably rich collections given by the late Willard Fiske, comprising the DANTE COLLECTION, containing seven thousand five hundred volumes, the PETRARCH COLLECTION, containing about four thousand volumes, the RHAETO-ROMANIC COLLECTION, containing about thirteen hundred volumes, and the ICELANDIC COLLECTION, containing over ten thousand volumes; the ZARNCKE LIBRARY, containing about thirteen thousand volumes and pamphlets, especially rich in Germanic philology and literature, purchased and presented in 1893 by William H. Sage; the HERBERT H. SMITH COLLECTION of books relating to South America, purchased in 1896; a valuable collection of books on French and Italian society in the 16th and 17th centuries, presented by Professor T. F. Crane, in 1896; the EISENLOHR LIBRARY containing about one thousand volumes on Egyptology and Assyriology purchased and presented in 1902 by A. Abraham; BAYARD TAYLOR's correspondence and journals and his collection of Goethe literature, presented to the Library in 1905 by Mrs. Marie Taylor; the valuable ANGLO-SAXON COLLECTION and the COWPER COLLECTION formed by the late Professor Hiram Corson, bequeathed to the Library, and received in 1911; GOLDWIN SMITH's correspondence and literary manuscripts presented in 1911 by Arnold Haultain; a large and valuable collection of works in the fields of English and Celtic philology presented by Professor J. M. Hart in 1914; the J. W. Guiteau INSURANCE LIBRARY; the LIBRARY OF JAPANESE LITERATURES, presented by Rev. W. E. Griffis.

Supplementing the general card catalog of the library, there have been issued printed catalogs of the President White collections on the Protestant Reformation (1889) and the French Revolution (1894), and of the Rhaeto-Romanic collection (1894), the Dante collection (1900), the Icelandic collection (1914), and the Petrarch collection.

The library is primarily for the use of University officers and students. Books not held in reserve for special reasons are allowed to go out for home use to all registered borrowers. Cards of admission to the shelves in the stack-rooms, and to the White Historical Library, will be issued for a limited time to students for the purposes of consultation and research, when their work is of such a nature as to require access to the book shelves. The library is open on week days, during term time, from 8 A. M. till 10:45 P. M. In vacation it is open week days from 9 A. M. till 5 P. M.

The Goldwin Smith Hall Library, in Goldwin Smith Hall, is distinctly a reference collection, numbering now over two thousand volumes. It consists

chiefly of books used in connection with the undergraduate work in humanities, providing in certain cases many copies of the books most in demand in the larger classes.

The Law Library occupies the third floor of Boardman Hall. It now contains about fifty thousand volumes, and includes the library of the late Nathaniel C. Moak, presented in 1893 by Mrs. A. M. Boardman and Mrs. Ellen D. Williams, as a memorial to Judge Douglas Boardman, the first Dean of the College of Law. In reports to the Federal Courts, reports of the several American state jurisdictions, and in English, Scotch, Irish, and Canadian reports, the law library is practically complete to date. The library also possesses complete sets of all the leading law periodicals in English.

The Barnes Reference Library for Biblical Study was presented to the University by the late Alfred C. Barnes for the use of the Cornell University Christian Association, and occupies a room in Barnes Hall. The collection now numbers 2229 volumes, all fully cataloged as part of the University Library. After the death of the donor his children gave to the University, for the maintenance and increase of the collection, an endowment of five thousand dollars.

The Flower Veterinary Library, now numbering about four thousand eight hundred volumes, owes its formation to the late Roswell P. Flower who gave, in 1897, five thousand dollars to Cornell University to establish a veterinary library, for the use of the State Veterinary College. In 1901, Mrs. Flower gave to the University ten thousand dollars for an endowment fund, the annual income of which is to be used for this library.

The Stimson Hall Medical Library was established in 1903 by gifts and by class memorial subscriptions. It now contains over thirteen hundred volumes.

The Medical College in New York City has its own library containing about seven thousand bound volumes and a large number of reprints and monographs, including the Birch-Hirschfeld bound collection. The library receives about one hundred current periodicals which include nearly all the more important German, French, English and Italian journals in the field of medical science.

The Agricultural College Library, comprising the college library, the Forestry Library, the Entomological Collection, and the Craig Horticultural Library, consists of some twelve thousand volumes.

SCHOLARSHIPS AND PRIZES

STATE TUITION SCHOLARSHIPS

(Awarded by New York State)

Under the law of the State of New York the Commissioner of Education is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly districts in the State of New York. Each scholarship entitles the holder to free tuition for four years beginning in the September immediately following the award of the scholarship.

All scholarship holders must satisfy the regular requirements for admission to one of the colleges of the University.

Holders of State Scholarships are notified that failure to register before the close of the last registration day for each term involves the severance of their connection with the University and consequently the forfeiture of their scholarships. The Commissioner of Education fills all vacancies in scholarships.

A State Scholarship holder after regular registration at the University, may receive a leave of absence for the purpose of earning necessary funds to defray his living expenses at the University. The total period of such leave of absence without forfeiture of the scholarship is two years.

For particulars concerning the award of State Scholarships, application should be made to the Commissioner of Education, Albany, N. Y.

STATE CASH SCHOLARSHIPS

(Awarded by New York State)

Under the law of the State of New York (Chapter 292, Laws of 1913), State Scholarships have been established in the several counties of the State, to be maintained by the State as provided by law. Five such scholarships are to be awarded each county annually for each assembly district therein. Each such scholarship will entitle the holder thereof to the sum of one hundred dollars for each year of his attendance upon an approved college in this State during a period of four years. A person who receives such scholarship is not restricted in his choice of the college which he desires to attend, or as to the course of study which he proposes to pursue; provided that no such scholarship shall include professional instruction in law, medicine, dentistry, veterinary medicine, or theology, except so far as such instruction is within a regularly prescribed course of study leading to a degree other than in one of the above named professions; and provided further, that the college selected by the person entitled to such scholarship is situated within the State of New York, and is incorporated as a college and authorized under the laws of this State and the rules of the Regents of the University to confer degrees.

For particulars in regard to the awarding of State Scholarships, application should be made to the Commissioner of Education, Albany, New York.

UNIVERSITY UNDERGRADUATE SCHOLARSHIPS

(Awarded by the University)

Eighteen University Undergraduate Scholarships, each continuing for two years and of an annual value of \$200, are offered each year to members of the incoming freshman class. The award is made on the basis of a special competitive examination held in Ithaca in September between the period of the entrance examinations and the opening of the University.

Every candidate for such a scholarship must have satisfied the entrance requirements for one of the colleges of the University.

The University Undergraduate scholarships will be awarded on the basis of examinations in three of the eight following subjects:

(a). English. Entrance requirement. (b). Greek. Greek grammar and composition; translation at sight of simple prose. (c). Latin. Latin grammar

and Caesar; composition and Cicero; Vergil. (d). French. Third year French. (e). German. Third year German. (f). Spanish. Third year Spanish. (g). Elementary mathematics. Elementary algebra; intermediate algebra; plane geometry; (h). Advanced mathematics. Solid geometry; advanced algebra; and plane trigonometry.

In choosing three of these eight subjects, every candidate must take English and at least one of the other five languages; and any candidate who does not select either Latin or Greek must take advanced mathematics.

No scholarship will be awarded to any candidate who is reported markedly deficient in any subject in which he is examined, and the right is reserved to fill fewer than eighteen scholarships in the absence of a sufficient number of duly qualified candidates.

Before the scholarships are awarded, every candidate must indicate the college and, if several curricula with diverse entrance requirements are offered in that college, the curriculum in which he intends to register. In order to hold a scholarship, if it be awarded to him, he must register in that college or curriculum; and he will forfeit his right to the scholarship, if he transfers to any other college or curriculum, unless, at the time when he was admitted to the University, he had satisfied, as shown by the records of the University, all the entrance requirements for the college or the curriculum to which he transfers.

All persons shall be debarred from the competition for these scholarships who have participated in any previous competition for the same, or have been previously registered in this University (including the Summer Session) or in any other university or college.

The moneys due on these scholarships are paid at the office of the Treasurer of the University in two equal payments, on the 20th of February and the 25th of June, but no scholarship holder is entitled to receive his semi-annual payment until the Scholarship Committee has examined and approved the holder's record for the preceding term, and until the chairman of the Scholarship Committee has certified that the record of the holder is satisfactory.

The special examinations for these scholarships begin on the first day of registration in September. Permits to take the examinations will be issued by the Registrar by mail on application, provided the candidate has satisfied all the entrance requirements and provided the application is accompanied by a statement giving the name of the school at which the candidate was prepared, the name of the principal, and the college degrees held by the principal.

SPECIAL UNDERGRADUATE SCHOLARSHIPS

The Frank William Padgham Scholarship. This scholarship, founded in 1892 by Amos Padgham of Syracuse, New York, in memory of his son, Frank William Padgham, a graduate of Sibley College of the class of 1888, entitles the holder to free tuition and fees in the regular curriculum in Sibley College of Mechanical Engineering. It cannot be held in connection with a New York State Scholarship. The Frank William Padgham Scholarship will be awarded to the candidate who has had his preparatory education wholly or in part in the public schools of Syracuse, New York, and who, having been admitted to the regular curriculum in Sibley College, shall pass the best examination in a competitive examination on mathematics (solid geometry, advanced algebra, and plane trigonometry) and on two of the following: 1. third year German; 2. third year French; 3. English. Of these subjects the candidate must take three including mathematics. The examination for the Padgham Scholarship is held at the same time as the University Undergraduate Scholarship Examinations.

State Grange Scholarships in Agriculture. At its annual meeting in February, 1914, the New York State Grange adopted a resolution whereby \$600 is to be given to members of the Order in the form of twelve scholarships in the winter courses in agriculture in Cornell University. The scholarships are each of the value of \$50, to be awarded to men or women who attain the highest standing in competitive examinations. The candidate should apply to the Master of

Pomona Grange in his home county, or to the Deputy in counties which have no Pomona Grange.

Boardman Senior Law Scholarship. A Senior Law Scholarship of the value of one hundred dollars, the gift of Judge Douglass Boardman, the first dean of the College, is awarded annually in June to the junior who has, in the judgment of the Faculty, done the best and most satisfactory work in law subjects to the end of his junior year. It is available during the senior year and is payable in the same way as are other University undergraduate scholarships. This scholarship may be forfeited in case the Faculty is convinced that the holder has not maintained a high standard of work, or has been guilty of any conduct unbecoming the holder of such a scholarship.

Fraser Scholarships. Two scholarships of the value of \$100 and \$50, respectively, the gift of an alumnus of the College of Law, in memory of Alexander Hugh Ross Fraser, late librarian of the College are awarded annually about the beginning of the college year to seniors whose law study has been done entirely in Cornell University. They are awarded to students who have most fully evidenced high qualities of mind and character by superior achievement in scholarship and by those attributes of manliness which earn the commendation of teachers and fellow students. The award is made upon recommendation of the senior class by vote from a list of members submitted by the Faculty as eligible by reason of superior scholarship. The holder of the Boardman Scholarship is not eligible.

The Roberts Scholarship Fund, a gift of the late Dr. Charles H. Roberts, of Oakes, Ulster County, New York, provides five annual scholarships. As expressed by the founder, the purpose of these scholarships is to furnish financial assistance to students in the College of Agriculture, who are of good moral character, who show native ability, tact, and application, and who are in need of such assistance. Preference is given to students who come from rural districts. The award is made after the close of the first term of each year. The value of each scholarship is \$240.

The Buffalo Alumni Association Scholarship of the annual value of \$200, for students who are residents of Erie or Niagara County, New York. Cornell University is not responsible for the awarding of this scholarship.

The Student Fund of the Cornell Club of Rochester provides a loan of the annual value of \$200 as a maximum. The recipient must be an upperclassman, must have had at least one year of residence at Cornell University, and must be eligible to membership in the Cornell Club of Rochester, New York. Cornell University is not responsible for the award or the payment of this scholarship.

The Fred Lewis Wilson Scholarship. The sum of approximately \$4,000 was bequeathed to Cornell University by Mrs. Mary Northrup Wilson to found and perpetuate a scholarship in honor of her son, Fred Lewis Wilson, who was graduated from Sibley College of Mechanical Engineering with the class of 1892. This scholarship, of the value of \$192, is awarded, for a period of not more than two years, to undergraduates who have been at least one year in the University. The award is made by a committee consisting of the President of the University and the Director of Sibley College, and one other person, chosen by them. In awarding the scholarship consideration is given to scholarship, character, probable usefulness in the world at large, proficiency in mechanic arts, and financial need.

For scholarships and fellowships in the Graduate School, see page 51.

PRIZES

For information concerning the award of the following prizes, the pamphlet on Prize Competitions should be consulted.

The Woodford Prize, founded by the Hon. Stewart Lyndon Woodford, is of the value of one hundred dollars and will be given annually for the best English oration, both matter and manner of delivery being taken into account. The prize is in the form of a gold medal, but the winner may, if he chooses, receive instead one hundred dollars in money. Graduate students may not compete for this prize.

The '86 Memorial Prize, the income of a sum of money left as a memorial by the class of 1886, and amounting to eighty-six dollars annually, is an undergraduate prize in declamation to be awarded at a public contest held in May of each year.

The '94 Memorial Prize, the income of a fund established by the class of 1894 and amounting to about ninety-four dollars annually, is an undergraduate prize in debate to be awarded at a public contest held in January of each year.

The Barnes Shakespeare Prize. The Shakespeare Prize, founded in 1887 by Mrs. Alfred Smith Barnes, of Brooklyn, consists of about fifty dollars, the annual income from her gift of one thousand dollars. This prize is open only to undergraduate students.

The Guilford Essay Prize, founded in 1902 by the late James B. Guilford to promote "a high standard of excellence in English prose composition," consists of about one hundred and fifty dollars, the annual income from his bequest of three thousand dollars. This prize is open only to undergraduate students.

The J. G. White Prizes in Spanish. Through the generosity of Mr. James Gilbert White (Ph.D., Cornell, '85), three prizes, each of the value of one hundred dollars, are offered annually to English speaking students for proficiency in Spanish and to Spanish speaking students for proficiency in English. These prizes are open only to undergraduate students.

The Corson French Prize, founded in 1902 by Professor Hiram Corson in memory of his wife, Caroline Rollin Corson, consists of a gold medal of the value of fifty dollars to be awarded annually for the best essay on a subject in either French philology or literature. If the winner so desires, he may receive the value of the prize in money. Competition for this prize is open to all students.

The Corson Browning Prize, founded in 1902 by Professor Hiram Corson, consists of a gold medal of the value of fifty dollars, to be awarded annually for the best competitive essay on Robert Browning. If the winner so desires, he may receive the value of the prize in money. Competition for this prize is open to juniors, to seniors, and to graduate students.

The Luana L. Messenger Memorial Prize, the annual income of a fund of five thousand dollars, founded by Mr. Hiram J. Messenger, will be awarded in accordance with the terms of the gift, to that student of the University who submits the essay "giving evidence of the best research and most fruitful thought in the field of human progress or the evolution of civilization during some period in human history or during human history as a whole."

The Sherman-Bennett Prize was founded by Philo Sherman-Bennett of New Haven, who, by provision of his will, bequeathed to William J. Bryan, of Lincoln, Nebraska, a fund to found prizes in twenty-five colleges or universities to be selected by him. The prize consists of the income of four hundred dollars, and is awarded "for the best essay discussing the principles of free government." Competition is open to all students of the University.

The Frances Sampson Fine Arts Prize. This prize, founded in 1909 by Professor Martin Sampson in memory of his wife Frances Van Rensselaer Sampson, is awarded "to that student in the University who shows the most intelligent appreciation of the graphic and plastic arts and architecture." The prize is not given for practical proficiency in painting, drawing, or designing, but for natural or acquired ability to appreciate artistic beauty. The prize, of about thirty dollars to be expended in books or reproductions, is awarded some time in April under regulations administered by the Professor of Esthetics.

The J. T. Morrison Prize, founded by J. T. Morrison, of Ithaca, and consisting of a gold medal of the value of one hundred dollars or of one hundred dollars in cash at the option of the successful competitor, will be given annually for the best original poem, or poems, matter and manner of delivery being taken into account. This prize is not open to graduate students.

The Horace K. White Prizes, established by Horace K. White, of Syracuse, are awarded annually to the most meritorious students in the graduating class of the New York State Veterinary College, as follows: to the first in merit, fifteen dollars; to the second in merit, ten dollars.

Sibley Prizes in Mechanic Arts. Under the gift of the Hon. Hiram Sibley, made in 1884, the sum of one hundred dollars will be awarded annually to those students in Sibley College who shall, in the opinion of the Faculty of that institution show the greatest merit in Sibley College work.

The Fuertes Medals, two gold medals established by Professor E. A. Fuertes, each of the value of one-half the amount of the income provided by the endowment fund, will be awarded under the following conditions:

One of these medals will be awarded annually to the student in the College of Civil Engineering who shall be found, at the time of graduation, to have maintained the highest scholarship in the courses of his college, provided he has been in attendance in the University for at least two years; and the other medal will be awarded annually to a graduate of the College of Civil Engineering for a meritorious paper tending to advance the scientific or practical interests of the profession of civil engineer.

The Clifton Beckwith Brown Memorial Medal was established by John Harkness Brown in memory of his brother Clifton Beckwith Brown, killed on the field of battle at San Juan Hill. A silver replica is awarded to the senior in the College of Architecture attaining the highest standing in design during his senior year, and a bronze replica to the senior taking second place. These medals however, are not awarded solely for order of merit; the award is not made unless the standard reached in design is considerably higher than that required for graduation.

The Charles Goodwin Sands Memorial Medal, founded by the family of Charles Goodwin Sands of the class of '90, is awarded for designs of exceptional merit presented in the regular competitions in the College of Architecture. The medal drawings are ranked as first and second medal drawings, according to merit. The author of a first medal drawing will receive a silver replica and the author of a second medal drawing a bronze replica of the medal. The award is for merit alone and while the medal is occasionally won by undergraduates, the standard is such that the honor of winning the first medal usually falls to graduate students.

The Eastman Prize for Public Speaking. With the object of developing qualities of personal leadership in rural affairs, A. R. Eastman of Waterville, New York, has established in the College of Agriculture an annual prize of one hundred dollars for public speaking on country life subjects. Competition is open to any regular or special student in the College of Agriculture.

The John Metcalfe Polk Prizes. In memory of John Metcalfe Polk, an instructor in the Medical College, who graduated from the Medical Department of Cornell University on June 7, 1889, and died on March 29, 1904, three prizes aggregating five hundred dollars will be presented at each commencement to

members of the graduating class who have completed the full course of study in Cornell University Medical College. These prizes will be awarded as follows: to the student having the highest standing, three hundred dollars; to the student having the second highest standing, one hundred and twenty-five dollars; to the student having the third highest standing, seventy-five dollars.

The Dana Prizes. Two prizes, one of fifty dollars and another of twenty-five dollars, are offered by Professor Charles Loomis Dana to the two students of the graduating class of the Medical College, to be designated by him, who make the best reports of neurological cases seen during the course, provided that the reports submitted possess sufficient merit to warrant the award.

The Hollingworth Honorarium for Research. An honorarium of fifty dollars for advanced work or research in pathology and bacteriology, established by Dr. W. G. Hollingworth of Utica, is awarded to a senior in the Veterinary College on his general standing in the work of the first two years and his proficiency in the first courses in pathology and bacteriology.

The Whiting Prizes. Two prizes, the first of fifty dollars, the second of twenty-five dollars, are offered by Professor Frederick Whiting to the two students of the graduating class of the Medical College, to be designated by him, who make the best record in practical and theoretical work in otology.

The Fuertes Memorial Prizes in Public Speaking were founded by Charles H. Baker, a graduate of the College of Civil Engineering of the class of 1886. Three prizes, one of one hundred twenty-five dollars, one of thirty-five dollars, and one of twenty dollars, are awarded annually to members of the junior and senior classes in the Colleges of Engineering and Architecture, for proficiency in public speaking.

The C. Lathrop Pack Prize is a gift of \$500 the interest of which is to be used by the Faculty of the Department of Forestry "in the interests of forestry."

The Jane Miller Prize of fifty dollars is awarded to the student or students having the highest standing in the subject of veterinary physiology.

The James Gordon Bennett Prize of fifty dollars is offered for work done on local and general anesthesia. The prize is open to seniors in the Veterinary College.

The Early English Text Society Prizes. The Early English Text Society annually donates four of its publications to be awarded as prizes to the students who pass the best examination in Early English.

The Graduate Prize in Philosophy has an annual value of about twenty-five dollars, and is open for competition to all students registered in the Graduate School. The prize will be awarded to the student who submits the best paper embodying the results of research in the field of philosophy.

The George Chapman Caldwell Prize of fifty dollars was established by Professor Frank Cary Caldwell and Mrs. Grace Caldwell Chamberlain as a memorial to their father. The prize accompanied by a certificate is to be awarded annually to a member of the senior class for general excellence in chemistry.

The Stewart Prize for the production of clean milk is a prize of fifty dollars donated by Mr. S. L. Stewart of Brookside Farms, Newburgh, N. Y.

The Morrison Trophy Cup Prize is awarded to students in the winter courses for proficiency in debate.

The Charles Lee Crandall Prizes, of \$100 and \$25, were founded in 1916 by alumni of the College of Civil Engineering. The prizes are awarded annually for the best paper written by seniors or juniors in the College of Civil Engineering.

The Goethe Prize of \$50, donated by Mr. Ludwig Vogelstein of New York City, is awarded for the best essay on Goethe.

FELLOWS AND GRADUATE SCHOLARS 1917-1918

UNIVERSITY FELLOWS

- The Cornell Fellowship:** English
Fred Manning Smith, A.B. (West Virginia) 1917; B.A. (Oxford) 1917
- The McGraw Fellowship:** Civil Engineering
Eric Vail Howell, C.E. (Cornell) 1914
- The Sage Fellowship:** Chemistry
Harold Simmons Booth, A.B. (Western Reserve) 1915; A.M. (same) 1916
- The Schuyler Fellowship:** Invertebrate Zoology and Entomology
Waro Nakahara, B.S. (Tokyo Agricultural College) 1915; A.M. (Cornell) 1917
- The Goldwin Smith Fellowship:** Geology
Norman W. Brillhart, A.B. (University of Oklahoma) 1917
- The Erastus Brooks Fellowship:** Mathematics
George Merritt Robison, A.B. (Cornell) 1916
- The Fellowship in Architecture:**
Roy Walling Cheesman, B.Arch. 1917
- The Fellowship in Romance Languages:**
Hyman Chonon Berkowitz, A.B. 1917
- The Fellowship in German:**
Gerhard Baerg, A.B. (Kansas) 1916
- The Fellowship in Agriculture:**
William H. Wood Komp, B.Sc. (Rutgers) 1916; M.Sc. (same) 1917
- The President White Fellowship in Modern European History:**
George A. Hedger, A.B. (University of Utah) 1906
- The President White Fellowship in Political and Social Science:**
Clyde Olin Fisher, A.B. (Trinity) 1911; A.M. (Columbia) 1916
- The Susan Linn Sage Fellowships in Philosophy:**
Frederick W. A. Miller, Ph.B. (Brown), 1915; M.A. (same) 1916
William Curtis Swabey, A.B. (Leland Stanford) 1915
- The Susan Linn Sage Fellowship in Psychology:**
Miss Josephine Mixer Gleason, A.B. (Vassar) 1914
- The Fellowship in Political Economy:**
Alexander Knox Rader, A.B. (Kansas) 1915; A.M. (same) 1917
- The Fellowship in Greek and Latin:**
Harry Caplan, B.A. (Cornell) 1916; A.M. (Cornell) 1917
- The Jacob H. Schiff Fellowship in German:**
James Owen Knauss, B.A. (Lehigh) 1910; A.M. (Harvard) 1913

UNIVERSITY GRADUATE SCHOLARS

The Susan Linn Sage Graduate Scholarships in Philosophy:

Miss Marie T. Collins, B.A. (Wellesley) 1913; M.A. (Kansas) 1914
 Edgar de Laski, A.B. (Cornell) 1917
 Albert Tomfohrde, A.B. (Rice Institute) 1917
 Julius Cohen, A.B. (Illinois) 1917
 Miss Marjorie S. Harris, B.A. (Mt. Holyoke) 1913

The Susan Linn Sage Graduate Scholarship in Psychology:

Paul Thomas Young, A.B. (Occidental) 1914; A.M. (Princeton) 1915

The Graduate Scholarship in Mathematics:

Percy Austin Fraleigh, A.B. (Cornell) 1917

The Graduate Scholarship in Latin and Greek:

Katharine Emily Cockcroft, A.B. (Cornell) 1917

The Graduate Scholarship in Archaeology and Comparative Philology:

Miss Clara May Harlan, A.B. (Indiana) 1913; A.M. (Cornell) 1917

The Graduate Scholarship in Histology and Embryology:

Fred Waldorf Stewart, A.B. (Cornell) 1916

The Graduate Scholarship in Botany; Geology; or Physical Geography:

Jean Dalziel Holmes, A.B. 1916

The Graduate Scholarship in English:

Miss Clara Whitney Crane, A.B. (Radcliffe) 1914

The Graduate Scholarship in History:

Miss Lois Oliphant Gibbons, A.B. (Michigan) 1912; A.M. (Pennsylvania) 1914

Owing to unusual conditions due to the war no appointments were made to the following fellowships and scholarships: the Sibley Fellowship, the President White Fellowship, the Fellowship in Mechanical and Electrical Engineering, one Fellowship in Greek and Latin, one Fellowship in Political Economy, the Fellowship in American History, the Edgar J. Meyer Memorial Fellowship in Engineering Research, the Graduate Scholarship in Chemistry, the Graduate Scholarship in Physics, the Graduate Scholarship in Civil Engineering, the Graduate Scholarship in Architecture.

UNIVERSITY UNDERGRADUATE SCHOLARSHIPS

THE CLASS OF 1920

The Cornell Scholarships:

James Raymond Wadsworth, Arts and Sciences.
Harry Essler Kroin, Arts and Sciences.

The President White Scholarships:

Hillel Poritsky, Agriculture.
Russell Olin Hooker, Arts and Sciences.

The Henry B. Lord Scholarships:

Madeline Fay Gilmour, Arts and Sciences.
Sophie Dazian Worms, Arts and Sciences.

The McGraw Scholarships:

Hyman Klein, Arts and Sciences.
Samuel Feldman, Arts and Sciences.

The Sage Scholarships:

Lansing Southwick Hoskins, Law.
Arthur William Hatch, Arts and Sciences.

The Sibley Scholarships:

Solomon Schwartzreich, Mechanical Engineering.
Morris Berkowitz, Arts and Sciences.

The Stewart L. Woodford Scholarships:

Mark Cymrot, Arts and Sciences.
Samuel Engel, Civil Engineering.

The John Stanton Gould Scholarships:

Charles Eliot Rhodes, Arts and Sciences.
Joseph Nemser, Arts and Sciences (Chemistry).

The Horace Greeley Scholarships:

Howard Burgess Malmar, Arts and Sciences.
Frederick Reinhold Martin Undritz, Agriculture.

THE CLASS OF 1921

The Cornell Scholarships:

Morris Kwit, Agriculture.
Theodore Lake Bennett, Arts and Sciences.

The President White Scholarships:

William Oliver Strunk, Arts and Sciences.
Lawrence Mitchell Orton, Arts and Sciences.

The Henry B. Lord Scholarships:

Frederick Henry Lape, Arts and Sciences (Chemistry).
Frank Harold Ellsworth, Arts and Sciences.

The McGraw Scholarships:

Jeno Stern, Civil Engineering.
Hyman Adelsberg, Arts and Sciences.

The Sage Scholarships:

Edwin Roy Shaver, Arts and Sciences (Chemistry).
Hermann Frederick Vieweg, Arts and Sciences (Chemistry).

The Sibley Scholarships:

Carl Fritiof Ostergren, Mechanical Engineering.
Salvatore Joseph Zammataro, Civil Engineering.

The Stewart L. Woodford Scholarships:

Anna Marie Vogel, Arts and Sciences.
Blanche Laura Brown, Arts and Sciences.

The John Stanton Gould Scholarships:

Alice Mary Hopkins, Arts and Sciences.
Louis Tinkler, Arts and Sciences.

The Horace Greeley Scholarships:

Earl A. Phelan, Arts and Sciences (Chemistry).
Bernard Leifer, Arts and Sciences.

RESIDENTIAL HALLS

The University has five residential halls for men students. These are situated on the Campus and furnish accommodations for about four hundred and twenty men. The charges for single rooms range from \$5 to \$12 a week. For particulars address the Treasurer of the University, Ithaca, N. Y.

The residential halls for women students are Sage College and Prudence Risley Hall. In these buildings, the total cost of board, laundry, and rent of furnished rooms, with heat and light, is three hundred and fifty dollars for the year 1917-1918. The University Adviser of Women has jurisdiction over all women students in the University and women students are not permitted to board or lodge outside of the dormitories for women, except in houses approved by the Adviser.

SAGE CHAPEL AND BARNES HALL

Religious services, provided for by the Dean Sage Preachership Endowment, are conducted in Sage Chapel throughout the academic year by clergymen selected from the various religious denominations.

The Cornell University Christian Association is a voluntary organization of students and professors formed for their own religious culture and for the promotion of Christian living in the University. The Christian Association has its home in Barnes Hall, which contains a library of biblical literature and reading and recreation rooms. Bible study courses are carried on throughout the year.

THE CORNELL INFIRMARY

The Cornell Infirmary is the former mansion of the late Henry Williams Sage, for many years chairman of the Board of Trustees of the University. At his death in 1897, his sons, Dean and William Henry Sage, endowed it and gave it to the University for a students' Infirmary as a memorial to their father. In 1912 the annex to the Infirmary was erected with a capacity of sixty-two beds.

The Infirmary is in charge of a superintendent and is open throughout the University year. It provides suitable rooms, food, and nursing, for sick students. It has no medical staff; students select their own physicians among practitioners in Ithaca or elsewhere. For Infirmary fees see page 47.

PHYSICAL EXAMINATIONS AND MEDICAL ADVICE

Medical Advisers and Examiners: Samuel Archer Munford, M.D., (Absent on leave); Edith Matzke, M.D.; Isabel Shannon, M.D.; Frank C. Balderrey, M.D.; John J. Harrington, M.D.; William B. McWhorter, M.D.

A physical examination is required of all students upon entering the University. The Medical Advisers observe regular office hours at their respective offices in the gymnasium for men and Sage College.

All students are at liberty and are urged, in cases of sickness or indisposition, to consult the Medical Advisers for a diagnosis of their ailments, to the end that they may be informed whether the further attention of a physician is necessary. When students are confined to their rooms, their house stewards or landlords are urged to communicate speedily with the Medical Advisers.

No charge is made for physical examinations or medical advice.

During the year 1916-17, the total number of calls at the offices of the Medical Advisers and Examiners exceeded nineteen thousand.

MILITARY SCIENCE AND TACTICS

Every male student, a candidate for a baccalaureate degree, except in the College of Law,* who is required to take five, six, seven, eight or more terms in residence, must take, in addition to the scholastic requirements for the degree, one, two, three, or four terms respectively, of three hours a week, in the Department of Military Science and Tactics.

*For modifications of these requirements in the case of Law students, see the Announcement of the College of Law.

The requirements in Military Science must be completed in the first terms of residence; otherwise the student will not be permitted to register again in the University, without the consent of the University Faculty.

The aim of the Department is to give training which will enable the graduates to serve as officers of a reserve or volunteer force. The students are organized into companies and a band for a course of training prescribed by the War Department.

This course includes physical training, military drill, and the application of fundamental principles of modern infantry tactics. During the second year qualified men may be given optional instruction in units specializing in signal corps, military engineering, and machine gun training. The band is both the cadet and university band. Students regularly enrolled in the Department may be assigned thereto for training, instead of to a company.

Any properly qualified member of the Cornell University Reserve Officers Training Corps who has satisfactorily passed the first year of his university course, may, on the recommendation of the Commandant, and the nomination of the President of the University, be commissioned as an officer by the University Faculty. The University provides pay, ranging from \$50 to \$250 annually, for each of the fifty-one commissioned officers of the Reserve Officers Training Corps. In addition, the nineteen senior officers are assistants in the Department.

Any student may elect drill during his entire course at the University.

Each cadet is required to have a uniform consisting of olive drab service coat, cap, breeches, woolen shirt, leggings, black tie, and web waist belt, made according to the specifications of the United States Army. These are at present furnished only by one contractor, maintaining an agent in Ithaca, at a cost approved by the University. High tan shoes must be provided in addition, and the army last is required.

DEPARTMENT OF PHYSICAL CULTURE

Students who are officially relieved of the requirements of Military Science and Tactics are subject to the requirements of the Department of Physical Culture.

Every male student who is a candidate for a baccalaureate degree in the four-year course is required to take two years of Physical Culture in case he is relieved of the requirements of the Department of Military Training.

Every woman student who is a candidate for a baccalaureate degree in a four-year course, must take throughout the first two years of her course, two and a half actual hours a week in the Department of Physical Culture.

Every male student who is a candidate for a baccalaureate degree in a three-year course is required to take one year of Physical Training in case he is relieved of the requirements of the Department of Military Training.

Every woman student who is a candidate for a baccalaureate degree in a three-year course, must throughout the first year of her course, take two and a half actual hours a week in the Department of Physical Culture.

The requirements in regard to Physical Training must be completed by the end of the Sophomore year (i. e., two years before graduation); otherwise the student will not be permitted to register again in the University, without the consent of the University Faculty.

It is the desire of the University that physical exercise should prove interesting and attractive to all students, not merely to those of unusual physical ability who are attempting to become members of some of the organized athletic teams.

ATHLETICS

An athletic league exists among the various colleges of the University and a series of athletic contests is carried on throughout the year; all students in the University except the varsity athletes may participate in these. The games consist of cross-country running, association football, basketball, indoor athletics, baseball, track athletics, and rowing.

The playground and Schoellkopf athletic field cover fifty-five acres. They are within five minutes walk of the Quadrangle and are used as a general playground for baseball, soccer, lacrosse, tennis, etc.

The Armory and the Gymnasium are used for indoor athletic work during the winter months. The Intercollege boat house, situated on the Inlet, is used in the spring by the Intercollege crews. Women students have their separate gymnasium, boat house, athletic field, etc.

All students who desire to train for athletic competitions are required to be examined by one of the medical examiners.

The University Faculty through its Committee on Student Affairs exercises jurisdiction over organized athletic teams and other recognized student organizations in respect of eligibility rules and leaves of absence.

ATHLETIC ASSOCIATION

The Cornell Athletic Association is an independent organization incorporated under the laws of the State of New York. Its board of trustees is composed of one representative from the Board of Trustees of Cornell University, and four from the faculties of the University, with one member at large, who together with representatives of the alumni and eight students representing officially the different branches of athletics, besides the representation of the undergraduate wearers of the "C," the representatives of the Minor Athletic Sports Association, and freshman representative constitute the Athletic Council. The Association owns Percy Field, the boats and boat houses, two gasoline launches, and other athletic equipment. The Association issues an annual membership ticket on the payment of \$10. The holders of these membership tickets are entitled to admission to every local athletic contest under the management of the Association, including all games of baseball, football, and track. Members are also entitled to first choice of reserved seats, and no reserved seat tickets for games or boat races are sold until the members of the Association have been supplied with the seats they require. No further subscription toward the support of athletics is solicited from holders of membership tickets. The Athletic Council is charged with the active management of the athletic interests of the University. The graduate manager is custodian of the funds belonging to the Association and to the various branches.

The Athletic Association has under its jurisdiction the part of Alumni Field set aside for varsity athletics consisting of about twelve acres. That part of Alumni Field which is devoted to varsity track athletics and football, is known as "Schoellkopf Field" and was equipped by members of the Schoellkopf family as a memorial to Jacob F. Schoellkopf; it contains a quarter-mile track, football gridiron and stadium, seating 9000 people, above which are two levels in which automobiles are parked.

Schoellkopf Memorial Building on Schoellkopf Field was erected by an alumnus of the University as a memorial to his friend, Henry Schoellkopf, A.B., '02. In this building are the dressing rooms for the varsity athletic teams and the offices of the Cornell University Athletic Association. Bacon Practice Hall, also adjacent to Schoellkopf Field, contains a dirt floor and is used for baseball, track, football, soccer and lacrosse practices.

Percy Field, an athletic field, covering ten acres, is used for baseball only. It is hoped in the near future that funds may be raised to finish the part of Alumni Field adjacent to Schoellkopf Field, which has been set aside for the baseball diamond, and stands to seat 6500 people.

The Athletic Association also has a boat house, shells, gigs, launches, etc., to use in the training of the varsity crews, situated on the Inlet about one-half mile from Cayuga Lake.

Officers

Herman Diederichs	President
Charles Hazen Blood	Financial Adviser
G. Ervin Kent	Graduate Manager

Members

Charles Hazen Blood	Board of Trustees
Charles Edward Treman	At large

David Fletcher Hoy.....	Faculty
Eugene Plumb Andrews.....	Faculty
Willard Winfield Rowlee.....	Faculty
George Prentice Bristol.....	Faculty
G. Ervin Kent.....	Graduate Manager
J. B. Kirkland.....	"C" Representative
Carlos Lazo.....	Navy Manager
.....	Crew Representative
Lester W. DuBois.....	Baseball Manager
.....	Baseball Captain
Herbert Rhoads Kuhns.....	Football Manager
Arthur Lewis Hoffman.....	Acting Football Captain
Howard Archibald McDonell.....	Track Manager
.....	Track Captain
William R. Hinchman.....	"Minor Sports" Representative
Talbot M. Malcolm.....	Freshman Representative

BENEFICIARY AND LOAN FUNDS

The following beneficiary and loan funds have been established, the income of which is available for the aid of deserving students in Cornell University. The amounts indicated are the totals of the respective funds on July 1, 1917.

Guiteau Student Loan Fund. Gifts under the wills of Frederick W. Guiteau and of Mrs. Nancy G. Howe (\$94,689.03), the income to be used in advancing and assisting needful, worthy young men in pursuing their studies in the University. Established 1904 \$322,421.48

Agricultural Students Loan Fund. Founded by gift of the School of Practical Agriculture and Horticulture at Briarcliff, N. Y., to aid students in the Agricultural College who are working their way through, and increased by Agricultural students. Established 1908..... \$873.01

Florence Dearstyne Fund. Gift under the will of Miss Florence E. Dearstyne, the income to be used under the direction of the Federation of Cornell Women's Clubs in assisting needy young women students. Established 1914...\$2,367.71

Polish Students Loan Fund. Gift from Polish students at Cornell to be disbursed to candidates presented by members of the Polish Club of the University. Established 1909..... \$128.00

William C. Seidel Book Fund. Gift of Mr. and Mrs. Gerrit S. Miller, the income to be used to purchase books for poor young men working their way through the College of Civil Engineering. Established 1905.....\$1,165.16

State Scholarship Alumni Fund. The nucleus of a fund to assist needy students. Established in 1914 by the gift of G. W. Graves, A.B., 1905, M.D., 1908, of the equivalent of the state scholarship held by him.....\$401.00

Woman's Guild Fund. The gift of women interested in the University, the income to be used to aid needy sick students. Established 1892.....\$6,557.41

Women Students Loan Fund. Consists of former Students Loan Fund, the income to be loaned to needy women students, and increased in 1913 by \$7,000, temporarily assigned to the fund by Ex-President Andrew D. White from funds placed at his disposal by Trustee Andrew Carnegie.....\$23,047.75

Wurts Loan Fund. Gift of \$2,000 by Alexander Jay Wurts, in memory of his mother, the income to be loaned to students of Sibley College to "help lift the man's burden from the boy's shoulders." Additions by Sibley students. Established 1912 \$2,267.74

Edwin G. Vail Fund. Gift under the will of Edwin G. Vail of Dutchess County the income to be expended in the aid of needy students from Dutchess County who may in the annual examination therefor succeed in winning a State Tuition Scholarship in the University \$10,000.00

PUBLICATIONS

The Cornell University Official Publication is issued monthly from July through November, and semi-monthly from December through June. It includes the annual Register, the Annual Report of the President, the Announcements of the various colleges, the General Circular of Information, and various departmental and other announcements. The Secretary of the University is the University Publisher.

The Philosophical Review, now in its twenty-seventh year, is a bimonthly journal edited by James E. Creighton, Professor of Logic and Metaphysics in the Sage School of Philosophy.

Cornell Studies in Classical Philology. This series, of which twenty numbers have been published, is edited by Charles E. Bennett, Goldwin Smith Professor of Latin and George P. Bristol, Professor of Greek.

The Journal of Physical Chemistry, now in its twenty-second year, is published monthly during the academic year by Wilder D. Bancroft, Professor of Physical Chemistry.

Cornell Studies in Philosophy. This series of monographs is issued under the editorial supervision of the professors of philosophy in the Sage School of Philosophy. Ten numbers have been published.

Islandica. An annual relating to Iceland and to the Fiske Icelandic Collection in the Cornell University Library. Ten volumes have been published.

Cornell University Medical Bulletin and the **Publications of the Cornell University Medical College** contain studies from the various departments of the Medical College.

The Memoirs of the Cornell University Agricultural Experiment Station consist of the more technical bulletins of the Federal Experiment Station at Cornell University.

Cornell Studies in English. This series, of which three numbers have been published, is edited by Professors Joseph Q. Adams, jr., Clark S. Northup, and Martin W. Sampson.

The following catalogs have been published by the Cornell University Library:

Catalog of the historical library of Andrew Dickson White. Parts 1-2.

Catalog of the Dante Collection presented by Willard Fiske.

Catalog of the Petrarch Collection bequeathed by Willard Fiske.

Catalog of the Icelandic Collection bequeathed by Willard Fiske.

Catalog of Runic Literature, forming a part of the Icelandic Collection bequeathed by Willard Fiske.

ASSOCIATE ALUMNI

By the charter of the University the graduates are entitled to elect two of the Board of Trustees each year. At a meeting called for the purpose and held on Wednesday, June 26, 1872, the day preceding the annual Commencement, representatives of all the classes that had graduated being present, the alumni formed an organization under the name of the Associate Alumni of Cornell University. The declared object of the association was to promote in every proper way the interests of the University and to foster among the graduates a sentiment of regard for each other and of attachment to their Alma Mater. On May 19, 1903, the Association was incorporated under the general laws of the State of New York.

By an amendment to the charter of the University, passed May 15, 1883, permitting members of the alumni, not present in person, to vote by written ballot at the annual election of trustees, the Treasurer of the University is required to keep "a registry of the signature and address of each alumnus." It is therefore important that each alumnus keep the Treasurer of the University informed of his full address (city, street, and number), and notify him immediately of any change.

The following ordinance was adopted by the Board of Trustees, October 24, 1888. All graduates of the first degree, in any of the departments of Cornell University, and all persons who have been admitted to any degree higher than the first in said University shall be alumni of said University, and as such be entitled to vote for alumni trustees under and in pursuance of the provisions contained in chapter 763 of the Laws of New York passed in 1867.

Officers and Committees for 1917-18

President—N. H. Noyes, '06, 1328 Delaware Ave., Indianapolis.
Vice-Presidents—J. L. Tiernon, jr., '95, 619 White Building, Buffalo. Mrs. G. D. Crofts, '05, 65 Livingston St., Buffalo.
Treasurer—W. W. Macon, '98, 239 West Thirty-ninth St., New York.
Alumni Recorder—Woodford Patterson, '95, Morrill Hall, Ithaca.
Secretary—R. W. Sailor, '07, Cornell Alumni News, Ithaca.

Directors

(Term expires in 1918.) Lt. Col. W. H. H. Hutton, jr., '91, Signal Corps, U. S. A. Am. Ex. Forces; N. H. Noyes, '06, Indianapolis; W. G. Ogden, '01, 53 State St., Boston; R. W. Sailor, '07, Ithaca; E. B. Whitman, '01, 1305 John St., Baltimore.

(Term expires in 1919.) J. L. Tiernon, jr., '95, Buffalo; W. R. Webster, jr., '90, 208 Brooklawn Avenue, Bridgeport, Conn.; N. J. Weldgen, '05, 911 Wilder Building, Rochester, N. Y.; J. P. Dods, '08, 900 South Michigan Avenue, Chicago; E. N. Sanderson, '87, 252 William St., New York.

(Term expires in 1920.) Miss Kate Gleason, '88, The Gleason Works, Rochester, N. Y.; William Metcalf, jr., '01, 410 Oliver Building, Pittsburgh; Dr. L. O. Howard, '77, Washington; F. C. Robinson, '04, 3144 Passyunk Avenue, Philadelphia; J. P. Harris, '01, Citizens Savings and Trust Company, Cleveland.

Ex officio—The President of the Cornellian Council; Woodford Patterson, '95, Alumni Recorder, Ithaca; Mrs. G. D. Crofts, '05, vice-president of the Associate Alumni, Buffalo; Dr. V. A. Moore, '87, president of the Association of Class Secretaries, Ithaca; W. W. Macon, '98, treasurer of the Associate Alumni, New York.

Nominating Committee—(Term expires in 1918.) J. N. Ostrom, '77, Farmers Bank Building, Pittsburgh; Philip Will, '00, 7 Highland Heights, R. D. 2, Rochester; J. A. Pollak, '07, 625 Mitchell Avenue, Cincinnati. (Term expires in 1919.) C. L. Bradley, '08, 706 Marion Building, Cleveland; C. H. Tuck, '06, Roberts Hall, Ithaca; Frederick Willis, '01, 156 Fifth Avenue, New York. (Term expires in 1920.) W. J. Norton, '02, 111 Monroe St., Chicago; H. A. Rogers, '03, 127 West Mt. Airy Avenue, Mt. Airy, Pa.; E. T. Foote, '06, Room 601, 77 Franklin St., Boston.

Clubs and Associations with the Name and Address of the Secretary of Each

General

THE ASSOCIATE ALUMNI OF CORNELL UNIVERSITY.—Robert Warren Sailor, in care of the Cornell Alumni News, Ithaca, N. Y.

THE CORNELLIAN COUNCIL.—Clara Howard, '14, (Acting), 27 Morrill Hall, Ithaca, N. Y.

THE CORNELL ASSOCIATION OF CLASS SECRETARIES.—Willard Austen, '91, (Acting), Cornell University Library, Ithaca, N. Y.

CORNELL SOCIETY OF CIVIL ENGINEERS.—Ernest A. Truran, 33 Lincoln Terrace, Yonkers, N. Y.

East

CORNELL CLUB OF NEW ENGLAND.—Creed W. Fulton, 58 Pearl St., Boston, Mass.

CORNELL ALUMNI CLUB OF SPRINGFIELD.—R. W. Clark, 224 Washington Boulevard, Springfield, Mass.

CORNELL ASSOCIATION OF CONNECTICUT.—William Van Kirk, The Aluminum Castings Co., Fairfield, Conn.

CORNELL UNIVERSITY ASSOCIATION OF NEW HAVEN.—Frank W. Hoyt, 161 York St., New Haven, Conn.

CORNELL UNIVERSITY CLUB OF NEW YORK.—Foster M. Coffin, 65 Park Ave., New York City.

THE CORNELL LAWYERS' ASSOCIATION OF NEW YORK.—L. G. Groser, 30 Broad St., New York City.

CORNELL ASSOCIATION OF BROOKLYN.—Alan H. Colcord, 551 Second St., Brooklyn, N. Y.

CORNELL ALUMNI ASSOCIATION OF SCHENECTADY.—J. J. Matson, Consulting Eng. Dept., G. E. Co., Schenectady, N. Y.

CORNELL ALUMNI ASSOCIATION OF NORTHERN NEW YORK.—George H. Hooker, 8 State St., Watertown, N. Y.

CORNELL CLUB OF OSWEGO COUNTY.—Charles W. Linsley, 52 East Utica St., Oswego, N. Y.

CORNELL CLUB OF HERKIMER COUNTY.—Fred D. McIntosh, Little Falls, N. Y.

CORNELL CLUB OF CENTRAL NEW YORK.—Frederick E. Norton, Syracuse Chamber of Commerce, Syracuse, N. Y.

CORNELL ALUMNI ASSOCIATION OF SENECA FALLS.—M. B. Sanderson, Seneca Falls, N. Y.

CORNELL CLUB OF BINGHAMTON.—A. L. Gilmore, Y. M. C. A. Building, Binghamton, N. Y.

CORNELL ALUMNI ASSOCIATION OF THE SOUTHERN TIER.—Frederick B. Gridley, 412 East Second St., Elmira, N. Y.

CORNELL CLUB OF UTICA.—Charles B. Mason, 30 Genesee St., Utica, N. Y.

CORNELL CLUB OF ROCHESTER.—G. E. Wynkoop, 615 Powers Building, Rochester, N. Y.

CORNELL ALUMNI ASSOCIATION OF WESTERN NEW YORK.—James A. Magoffin, 804 Mutual Life Building, Buffalo, N. Y.

NIAGARA FALLS ALUMNI ASSOCIATION.—Frederick L. Lovelace, 730 Main St., Niagara Falls, N. Y.

CORNELL ALUMNI ASSOCIATION OF JAMESTOWN, N. Y.—Albert S. Price, 406 Fenton Bldg., Jamestown, N. Y.

CORNELL ALUMNI CLUB OF OSSINING.—Judge Milton C. Palmer, Ossining, N. Y.

CORNELL UNIVERSITY CLUB OF DUTCHESS COUNTY.—P. A. Rieser, 25 South Clover St., Poughkeepsie, N. Y.

CORNELL CLUB OF NORTHERN NEW JERSEY.—H. Ezra Eberhardt, Mountain View Terrace, Maplewood, N. J.

CORNELL CLUB OF PHILADELPHIA.—R. D. Edwards, 1519 Sansom St., Philadelphia, Pa.

NORTHEASTERN PENNSYLVANIA ASSOCIATION.—Seth W. Shoemaker, 827 Electric St., Scranton, Pa.

CORNELL CLUB OF WESTERN PENNSYLVANIA.—A. N. Slocum, Westinghouse Building, Pittsburgh, Pa.

LUZERNE COUNTY CORNELL CLUB.—E. B. Wagner, 15 N. Franklin St., Wilkes-Barre, Pa.

CORNELL ASSOCIATION OF CENTRAL PENNSYLVANIA.—E. M. Teeter, P. O. Box 586, Harrisburg, Pa.

CORNELL UNIVERSITY ASSOCIATION OF DELAWARE.—Alexander Laird, Odd Fellows Building, Wilmington, Del.

South

CORNELL ALUMNI ASSOCIATION OF RALEIGH.—R. W. Leiby, State Dept. of Agriculture, Raleigh, N. C.

CORNELL ASSOCIATION OF MARYLAND.—J. S. Gorrell, 108 East Lexington St., Baltimore, Md.

CORNELL CLUB OF WASHINGTON.—L. W. Kephart, Bureau of Plant Industry, 1306 B Street, S. W., Washington, D. C.

CORNELL UNIVERSITY CLUB OF LOUISIANA.—Temporarily inactive.

CORNELL UNIVERSITY CLUB OF TEXAS.—J. L. Jacobs, in care of James Stewart Co., Houston, Tex.

CORNELL UNIVERSITY CLUB OF KENTUCKY.—Adolph Reutlinger, 123 S. 3d St., Louisville, Ky.

Middle States

CORNELL CLUB OF CLEVELAND.—Dr. I. J. Kerr, 1015 New England Bldg., Cleveland, Ohio.

CORNELL ALUMNI ASSOCIATION OF TOLEDO.—W. C. Acklin, 1645 Dorr St., Toledo, O.

CORNELL ALUMNI CLUB OF DAYTON.—Barton Myers, with Schæffer Gengnagel & Co., Dayton, O.

AKRON CORNELL ASSOCIATION.—L. A. Keane, 197 Spicer St., Akron, O.

CORNELL ALUMNI ASSOCIATION OF CENTRAL OHIO.—W. J. Armstrong, in care of Jeffrey Mfg. Co., Columbus, Ohio.

CORNELL CLUB OF CINCINNATI.—Max H. Thurnauer, 3891 Reading Road, Cincinnati, Ohio.

CORNELL UNIVERSITY ASSOCIATION OF INDIANA.—Temporarily inactive.

CORNELL ALUMNI ASSOCIATION OF MICHIGAN.—H. V. Welles, 3039 West Grand Boulevard, Detroit, Mich.

CORNELL UNIVERSITY ASSOCIATION OF CHICAGO.—J. C. Carpenter, Marquette Building, Chicago, Ill.

CORNELL UNIVERSITY ALUMNI ASSOCIATION OF MILWAUKEE.—Morgan Washburn, jr., The Cutler-Hammer Mfg. Co., Milwaukee, Wis.

THE CORNELL CLUB OF ST. LOUIS.—A. J. Widmer, 1013 Syndicate Trust Building, St. Louis, Mo.

CORNELL ASSOCIATION OF KANSAS CITY.—G. F. Mosher, 310 Republic Building, Kansas City, Mo.

MINNESOTA CORNELL ALUMNI ASSOCIATION.—R. C. Vincent, 1404 Pioneer Bldg., St. Paul, Minn.

HEAD OF THE LAKES CORNELL ASSOCIATION.—A. T. Banning, jr., 1009 Alworth Bldg., Duluth, Minn.

CORNELL ASSOCIATION OF MINNEAPOLIS.—F. H. Perl, 405 New York Life Building, Minneapolis, Minn.

OMAHA CORNELL CLUB.—George B. Thummel, 554 Omaha National Bank Bldg., Omaha, Neb.

WICHITA CORNELL CLUB.—Hal M. Black, Wichita Club, Wichita, Kansas.

West

THE ROCKY MOUNTAIN CORNELL ALUMNI ASSOCIATION.—A. F. Zang, 709 Clarkson St., Denver, Colo.

CORNELL ALUMNI ASSOCIATION OF UTAH.—Paul Williams, in care of Oregon Short Line R. R. Co., Salt Lake City, Utah.

LOGAN CORNELL CLUB.—E. G. Peterson, Logan, Utah.

CORNELL UNIVERSITY CLUB OF SPOKANE.—E. V. Price, Hutton Building, Spokane, Wash.

PACIFIC NORTHWEST ASSOCIATION.—Frank D. Nash, 500 Bank of California Building, Tacoma, Wash.

CORNELL ALUMNI ASSOCIATION OF SEATTLE.—M. R. McMicken, 1630 16th Ave., Seattle, Wash.

CORNELL ALUMNI ASSOCIATION OF PORTLAND.—H. P. Henry, Yeon Bldg., Portland, Ore.

CORNELL UNIVERSITY CLUB OF SOUTHERN CALIFORNIA.—J. E. Mahon, 921 Merchants National Bank Building, Los Angeles, Cal.

CORNELL ALUMNI ASSOCIATION OF NORTHERN CALIFORNIA.—L. R. Goodrich, Thomas Building, Oakland, Cal.

Foreign and Insular

CORNELL ALUMNI ASSOCIATION OF FRANCE.—A. D. Weil, 10 rue Ste. Cecile, Paris, France.

CORNELL CLUB OF HAWAII.—H. A. R. Austin, 20 Kapiolani Bldg., Honolulu, T. H.

CORNELL ALUMNI ASSOCIATION OF THE PHILIPPINE ISLANDS.—Abraham Gideon, City Hall, Manila, P. I.

CORNELL CLUB OF NORTH CHINA.—Y. S. Djang, Tientsin, China.

THE CORNELL ASSOCIATION OF EASTERN CANADA.—W. H. Wardwell, 413 New Birks Bldg., Montreal, Can.

Women's Clubs

FEDERATION OF CORNELL WOMEN'S CLUBS.—Miss Clara Z. Howard, 27 Morrill Hall, Ithaca, N. Y.

ALBANY.—Miss Inez Kisselburgh, 364 Hamilton St., Albany, N. Y.

BAY CITIES OF CALIFORNIA.—Mrs. Walter Mulford, 1619 Spruce St., Berkeley, Cal.

BOSTON.—Mrs. Harry M. Varrell, 37 Concord Ave., Cambridge, Mass.

BUFFALO.—Miss Grace Laing, 306 Bryant St., Buffalo, N. Y.

CHICAGO.—Miss Margaret Aherne, 539 Madison St., Gary, Ind.

CLEVELAND.—Miss F. Rosenthal, 10209 South Boulevard, Cleveland, Ohio.

ITHACA.—Miss Rebecca Harris, Kelvin Pl., Ithaca, N. Y.

NEW YORK.—Miss Mabel E. Rose, 950 Marcy Ave., Brooklyn, N. Y.

PHILADELPHIA.—Miss Olive Long, 4631 Sansom St., Philadelphia, Pa.

PITTSBURGH.—Temporarily inactive.

ROCHESTER.—Miss Gwendolen English, 39 Vick Park A., Rochester, N. Y.

TROY.—Miss Frances McTammany, 170 1st St., Troy, N. Y.

UTICA.—Miss K. A. Donlon, 1323 Seymour Ave., Utica, N. Y.

WASHINGTON.—Miss J. T. Minnick, 1808 G Street, N. W., Washington, D. C.

WATERVLIET.—Miss Anna W. Fogarty, 1926 23 St., Watervliet, N. Y.

WORCESTER.—Mrs. Harold B. Smith, 20 Trowbridge Road, Worcester, Mass.

THE CORNELLIAN COUNCIL

OFFICERS

President—Edward L. Stevens, '99, 154 Nassau St., New York City.

Vice-President—Walter P. Cooke, '91, 1330 Marine Bank Bldg., Buffalo, N.Y.

Acting Secretary—Clara Howard, '14, 27 Morrill Hall, Ithaca, N. Y.

Alumni Recorder—Woodford Patterson, '95, 31 Morrill Hall, Ithaca, N. Y.

The Cornellian Council was founded several years ago by the Alumni of Cornell University for the definite purpose of cultivating and stimulating among Cornell Alumni the habit of giving to the University. It was founded at a time when the University was greatly in need of additional income for operating expenses, for salaries of professors and instructors, for the building of dormitories, and for various other purposes.

The founders had in mind the idea of doing away with indiscriminate solicitation of the Alumni for various University purposes and of having all appeals for the University's needs made by one organization vested with authority. The wisdom of this plan is now acknowledged by the Faculty and Trustees as well as by the Alumni. In this way small gifts to the University are made valuable by reason of their large number and solidarity of purpose, and at the same time an interest is created, which can be created in no other way.

The larger part of the gifts of the Alumni to the Alumni Fund are unrestricted and are available for appropriation by the Trustees where most needed. Gifts to the University through the Alumni Fund may be specifically ear-marked for a special purpose and when so ear-marked are used for that purpose only.

The membership of the Cornellian Council, with which is intrusted the promotion and collection of the Alumni Fund, is made up of one representative from each of the last forty classes and twenty members at large elected by the Council, thus making it a truly representative Alumni body. Payments of all subscriptions to the Alumni Fund are made by checks payable to "Cornell University." These checks as soon as received by the Secretary of the Council are immediately turned over to the Treasurer of the University. From time to time sums are appropriated by the Trustees for the most vital needs of the University.

In the brief existence of the Cornellian Council, more than 4,000 Cornellians have contributed to the Alumni Fund, and over \$100,000 has been placed at the disposal of the Board of Trustees. The larger part of this sum has been used to provide increases in the salaries of professors and teachers, some of whom would otherwise have been lost to the University, and toward the cost of construction of Founders Hall. These represent two of the University's greatest needs. A part of the fund has also been used for University operating expenses and to help pay for a valuable piece of land adjoining Beebe Lake.

HONORARY MEMBERS

Julius Chambers, '70, 312 W. 109th St., New York City.

Frederic Schoff, '71, 26th and Callowhill Sts., Philadelphia, Pa.

Edwin Gillette, '73, Ithaca, N. Y.

Charles S. Harmon, '75, 1205 First National Bank Building, Chicago, Ill.

Jeremiah K. Cady, '76, 172 Washington St., Chicago, Ill.

Charles W. Wason, '76, 9209 Euclid Ave., Cleveland, O.

Merritt E. Haviland, '77, 32 Nassau St., New York City.

1878—Mrs. Bessie DeW. Beahan, 2213 Bellfield Ave., Cleveland, Ohio.

1879—Calvin Tomkins, 30 Church St., New York City.

1880—Hosea Webster, 85 Liberty St., New York City.

1881—Ira A. Place, Grand Central Terminal, New York City.

1882—Dr. Herbert D. Schenck, 75 Halsey St., Brooklyn, N. Y.

1883—Ebenezer B. Turner, Ithaca, N. Y.

1884—Henry J. Patten, 220 Western Union Building, Chicago, Ill.

1885—Robert J. Eidlitz, 30 East 42d St., New York City.

1886—Elias A. deLima, Battery Park National Bank, New York City.

1887—Edwin N. Sanderson, 60 Broadway, New York City.

1888—Albert E. Metzger, 1508 Broadway, Indianapolis, Ind.

1889—Leon Stern, 1017 Chamber of Commerce Building, Rochester, N. Y.

1890—Daniel Upton, State Normal School, Buffalo, N. Y.

1891—Clarence A. Snider, 17 Battery Pl., New York City.

1892—Robert T. Mickle, Stephen Girard Building, Philadelphia, Pa.

1893—E. Vail Stebbins, 42 Broadway, New York City.

1894—Edwin P. Young, Towanda, Pa.

1895—Roger H. Williams, 70 Fifth Ave., New York City.

1896—William W. Ricker, 90 West St., New York City.

1897—James K. Fraser, 95 Madison Ave., New York City.

1898—Ernest M. Bull, 10 Bridge St., New York City.

1899—Edward L. Stevens, jr., 154 Nassau St., New York City.

1900—Arthur P. Bryant, 50 Congress St., Boston, Mass.

1901—John Lawson Senior, 246 Wildwood Ave., Jackson, Mich.

1902—Maurice Whinery, 7 Laight St., New York City.

1903—Raymond P. Morse, Jay and Water Sts., Brooklyn, N. Y.

1904—Harland B. Tibbetts, 37 Wall St., New York City.

1905—Erskine Wilder, 226 W. Lake St., Chicago, Ill.

1906—Roger S. Vail, 110 S. Dearborn St., Chicago, Ill.

1907—Julian A. Pollak, The Pollak Steel Co., Cincinnati, O.

1908—William G. Mennen, 42 Orange St., Newark, N. J.

1909—Robert E. Coulson, 62 Cedar St., New York City.

1910—Russell B. Hurlburt, 115 Broadway, New York City.

1911—Edwin E. Sheridan, Chicago Car Adv. Co., Chicago, Ill.

1912—Finis E. Yoakum, jr., 140 E. Ave., 59, Los Angeles, Cal.

1913—George H. Rockwell, 748 Maine St., Cambridge, Mass.

1914—Thomas B. Crews, Washington Hotel, St. Louis, Mo.

1915—Thomas Francis Keating, jr., 11 East 87 St., New York City.

1916—Weyland Pfeiffer, care W. R. Grace & Co., Hanover Sq., New York City.

THE REGISTER

MEMBERS AT LARGE

Mrs. A. B. Comstock, '85, Roberts Pl., Ithaca, N. Y.
George B. Kittinger, '85, 659 Colman Block, Seattle, Wash.
Walter P. Cooke, '91, 1330 Marine Bank Bldg., Buffalo, N. Y.
George W. Bacon, '92, 115 Broadway, New York City.
Randall J. LeBoeuf, '92, Albany Trust Bldg., Albany, N. Y.
Edward S. Sanderson, '94, 115 Buckingham St., Waterbury, Conn.
Alice H. Bruère, '95, 400 Riverside Dr., New York City.
Francis O. Affeld, jr., '97, 141 Broadway, New York City.
Daniel A. Reed, '98, Red Cross War Council, Washington, D. C.
Kelton E. White, '00, 303 N. 4th St., St. Louis, Mo.
Edward R. Alexander, '01, 825 Garfield Bldg., Cleveland, O.
Katherine R. Buckley, '01, 12 West 98 St., New York City.
George D. Crofts, '01, Third National Bank Bldg., Buffalo, N. Y.
William Metcalf, jr., '01, 1410 H. W. Oliver Bldg., Pittsburgh, Pa.
Willard D. Straight, '01, 23 Wall St., New York City.
Ezra B. Whitman, '01, American Bldg., Baltimore, Md.
Ernest S. Shepherd, '02, Geophysical Laboratory, Washington, D. C.
Clarence F. Hirshfeld, '05, David Whitney Bldg., Detroit, Mich.
Thomas Fleming, jr., '05, Union Bank Bldg., Pittsburgh, Pa.

EX-OFFICIO MEMBERS

Nicholas H. Noyes, '06, Eli Lilly & Co., Indianapolis, Ind.
Veranus A. Moore, '87, 914 E. State St., Ithaca, N. Y.
Woodford Patterson, '95, 31 Morrill Hall, Ithaca, N. Y.

CORNELL ASSOCIATION OF CLASS SECRETARIES

OFFICERS FOR 1917-18

President—Clark S. Northup, '93, 407 Elmwood Ave., Ithaca, N. Y.

Vice-President—V. A. Moore, '87, 914 E. State St., Ithaca, N. Y.

Treasurer—Robert Elias Treman, '09, Ithaca, N. Y.

Secretary—Willard Austen, '91, (Acting), Cornell University Library, Ithaca, N. Y.

CLASS SECRETARIES

- 1869—Morris Lyon Buchwalter, 3345 Reading St., Cincinnati, Ohio.
- 1870—Charles Albert Storke, McKay Bldg., Santa Barbara, Calif.
- 1871—Robert Goodloe Harper Speed, 911 E. State St., Ithaca, N. Y.
- 1872—Henry LeRoy Stewart, 508 E. Buffalo St., Ithaca, N. Y.
- 1873—Edwin Gillette, 304 N. Geneva St., Ithaca, N. Y.
- 1874—John Henry Comstock, 123 Roberts Place, Ithaca, N. Y.
- 1875—Henry Woodward Sackett, Tribune Bldg., New York City.
- 1876—Daniel Franklin Flannery, 1200 Westminster Bldg., Chicago, Ill.
- 1877—William Ogden Kerr, 111 Oak Ave., Ithaca, N. Y.
- 1878—Willard Beahan, 2213 Bellfield Ave., Cleveland, Ohio.
- 1879—Calvin Tomkins, 30 Church St., New York City.
- 1880—Addison Delavan Merry, 706 Dillaye Memorial Bldg., Syracuse, N. Y.
- 1881—Henry Hiram Wing, 3 Reservoir Ave., Ithaca, N. Y.
- 1882—Herbert Schenck, 75 Halsey St., Brooklyn, N. Y.
- 1883—Herbert Charles Elmer, Cornell Heights, Ithaca, N. Y.
- 1884—Henry Pelouse de Forest, 59 West 54 St., New York City.
- 1885—Edward Herman Bostwick, 402 N. Geneva St., Ithaca, N. Y.
- 1886—Luzerne Coville, 514 East Buffalo St., Ithaca, N. Y.
- 1887—Veranus Alva Moore, 914 E. State St., Ithaca, N. Y.
- 1888—Willard Winfield Rowlee, 11 East Ave., Ithaca, N. Y.
- 1889—Henry Neely Ogden, 614 University Ave., Ithaca, N. Y.
- 1890—Charles James Miller, Newfane, N. Y.
- 1891—Willard Austen, Cornell University Library, Ithaca, N. Y.
- 1892—Charles Dibble Bostwick, 803 E. Seneca St., Ithaca, N. Y.
- 1893—Clark Sutherland Northup, 407 Elmwood Ave., Ithaca, N. Y.
- 1894—Elmer Ellsworth Bogart, 1125 Boston Road, Bronx, New York City.
- 1895—William Fitch Atkinson, 44 Court St., Brooklyn, N. Y.
- 1896—George Solomon Tompkins, P. O. Box 343, Albany, N. Y.
- 1896—Mrs. C. S. Northup (for women), 407 Elmwood Ave., Ithaca, N. Y.
- 1897—George Nieman Lauman, College of Agriculture, Ithaca, N. Y.
- 1898—Jesse Fuller, jr., Sparks & Fuller, Temple Bar Bldg., Brooklyn, N. Y.
- 1899—Charles Crawford Whinery, 529 Berkeley Ave., S. Orange, N. J.
- 1900—George Harper Young, 1014 W. Lehigh Ave., Philadelphia, Pa.
- 1900—Mrs. M. H. Kingsbury (for women), 2 South Ave., Ithaca, N. Y.

- 1901—Arthur Sherwood, 52 Vanderbilt St., New York City.
 1902—William John Norton, Room 1514, 111 W. Monroe St., Chicago, Ill.
 1902—Mrs. Ruth Bentley Shreve (for women), Hastings-on-Hudson, N. Y.
 1903—Raymond Parmlee Morse, 166 Gates Ave., Brooklyn, N. Y.
 1904—Cecil Jarvis Swan, 820 S. Michigan Ave., Chicago, Ill.
 1904—Dr. Mary Crawford (for women), 100 E. 17th St., New York City.
 1905—Harold Jay Richardson, 131 Dayan St., Lowville, N. Y.
 1906—Charles Henry Tuck, Agricultural College, Ithaca, N. Y.
 1906—Miss Helen Coffin (for women), 47½ Tremont St., Hartford, Conn.
 1907—Antonio Lazo, Parkinson & Burr, 7 Wall St., New York City.
 1908—Seth Whitney Shoemaker, 827 Electric St., Scranton, Pa.
 1909—Robert Elias Treman, 411 University Ave., Ithaca, N. Y.
 1909—Mrs. R. W. Sailor (for women), 117 Oak Ave., Ithaca, N. Y.
 1910—Andrew Joseph Whinery, 203 Glenwood Ave., E. Orange, N. J.
 1910—Miss Olive Whitson (for women), 443 W. 28th St., New York City.
 1911—James Edward Oliver Winslow, 65 Park Ave., New York City.
 1911—Miss Clara Vivian Braymer (for women), 56 N. Clinton Ave., Trenton, N. J.
 1912—Ross William Kellogg, 109 N. Tioga St., Ithaca, N. Y.
 1912—Mrs. Mabel DeForest Starkweather (for women), 336 Van Houten Ave., Passaic, N. J.
 1913—George Helm Rockwell, 748 Maine St., Cambridge, Mass.
 1913—Miss Sophie M. Becker (for women), 502 N. Calhoun St., Baltimore, Md.
 1914—Heber Wallace Peters, care of H. C. Peters, 2206 Woolworth Bldg., New York City.
 1914—Mrs. Howard S. Teall (for women), Sodus, N. Y.
 1915—Robert Whitman White, care of Linde Products Co., 42d Street Bldg., New York City.
 1915—Miss Sarah Barclay (for women), 174 Prospect Park West, Brooklyn, N. Y.
 1916—Weyland Pfeiffer, Scarsdale, N. Y.
 1916—Mrs. A. J. Mix (for women), 1031 Mississippi St., Lawrence, Kansas.
 1917—Donald Bain Vail, 141 Heights Road, Ridgewood, N. J.
 MED. COLL.—William Henry Cantle, Mamaroneck, N. Y.
 Nan Gilbert Seymour (for women), 129 E. 17th St., New York City.

HONORARY MEMBERS

President Jacob Gould Schurman, Ithaca, N. Y.
 Registrar David Fletcher Hoy, '91, Ithaca, N. Y.
 Woodford Patterson, '96, Ithaca, N. Y.
 Edward L. Stevens, '99, President Cornellian Council.
 Nicholas H. Noyes, '06, President Associate Alumni.
 Thomas F. Crane, Ithaca, N. Y.

CLASS MEMORIALS

- CLASS OF 1872:—Seventy-two Elm Trees bordering President's Avenue and northern half of East Avenue.
 CLASS OF 1873:—Drinking Fountain in front of McGraw Hall.
 CLASS OF 1878:—The Class Pipe.

- CLASS OF 1879:—Bronze Tablet containing bust of Bayard Taylor in Sage Chapel.
- CLASS OF 1883:—Portrait of Professor William Dexter Wilson, D.D., LL.D., in the University Library.
- CLASS OF 1884:—Portrait of Professor Charles Chauncey Shackford, A.M., in the University Library.
- CLASS OF 1885:—Statue of Augustus Cæsar in the Museum of Casts.
- CLASS OF 1886:—The '86 Memorial Prize in Junior Oratory.
- CLASS OF 1890:—Cornell Boat House.
- CLASS OF 1891:—The '91 Memorial Fund subject to class action.
- CLASS OF 1892:—The Witherbee Memorial Club House at Percy Field.
- CLASS OF 1893:—The Interscholastic League Prizes in Athletics.
- CLASS OF 1894:—The '94 Memorial Prize in Debate.
- CLASS OF 1895:—The Henley Shell.
- CLASS OF 1896:—Gift toward the establishment of a University Club.
- CLASS OF 1897:—Gift toward the establishment of a University Club.
- CLASS OF 1898:—Gift toward the establishment of a University Club.
- CLASS OF 1898 (College of Law):—Carved oak seat in Boardman Hall.
- CLASS OF 1899:—Gift toward the establishment of an Alumni Hall.
- CLASS OF 1900:—Gift toward the establishment of an Alumni Hall.
- CLASS OF 1901:—Gift toward the establishment of an Alumni Hall.
- CLASS OF 1902:—Gift toward the establishment of an Athletic Field.
- CLASS OF 1903:—Gift toward the establishment of an Athletic Field.
- CLASS OF 1903 (College of Law):—Portraits of Justice Rufus W. Peckham and Joseph H. Choate.
- CLASS OF 1904:—Gift toward an Endowment Fund.
- CLASS OF 1904 (College of Law):—Portraits of James C. Carter and Elihu Root.
- CLASS OF 1905:—Gift toward the establishment of an Alumni Hall.
- CLASS OF 1905 (College of Law):—Portraits of Abraham Lincoln and Thomas M. Cooley.
- CLASS OF 1906:—Gift toward an Endowment Fund.
- CLASS OF 1906 (College of Law):—Portrait of Justice Joseph W. Story.
- CLASS OF 1907:—Gift toward an Endowment Fund.
- CLASS OF 1907 (College of Law):—Portrait of Governor Charles E. Hughes.
- CLASS OF 1908:—Gate for Alumni Field.
- CLASS OF 1908 (College of Law):—Oak seat in Boardman Hall.
- CLASS OF 1909:—Gift toward an Endowment Fund.
- CLASS OF 1910:—Gift toward an Endowment Fund.
- CLASS OF 1910 (College of Law):—Portrait of James Barr Ames.
- CLASS OF 1911:—Gift toward an Endowment Fund.
- CLASS OF 1911 (College of Law):—Portrait of Chief Justice White.
- CLASS OF 1912:—Gift toward an Endowment Fund.
- CLASS OF 1912 (College of Law):—Portrait of Professor William Albert Finch.
- CLASS OF 1913:—Gift toward an Endowment Fund.
- CLASS OF 1914:—Gift toward an Endowment Fund.
- CLASS OF 1915:—Gift toward an Endowment Fund.
- CLASS OF 1916:—Gift toward an Endowment Fund.
- CLASS OF 1917:—Gift toward an Endowment Fund.

CORNELL UNIVERSITY SUMMER SESSION, 1917

OFFICERS

Jacob Gould Schurman, LL.D., President of the University.
George Prentice Bristol, A.M., Director of the Summer Session.
David Fletcher Hoy, M.S., Registrar of the University.

*STAFF OF INSTRUCTION

Ruth Atkinson, Instructor in Physical Training.	Physical Education
Elmer J. Bailey, Ph.D., Assistant Professor of English.	English
Dane Lewis Baldwin, M.A., Instructor in English.	English
William C. Ballard, M.E., Instructor in Engineering.	Music
Leila Bartholomew, Teacher of Music, Grammar Schools, Ithaca.	Music
Robert Bartholomew, Assistant in Music.	Music
Charles Clarence Bidwell, Ph.D., Instructor in Physics.	Physics
Homer Guy Bishop, M.A., Assistant in Psychology.	Psychology
Sophia W. Bliven.	Music
Albert William Boesche, Ph.D., Professor of German.	German
Edwin Garrigues Boring, Ph.D., Instructor in Psychology.	Psychology
Julian Pleasant Bretz, Ph.D., Professor of American History.	History and Government
George Prentice Bristol, A.M., Professor of Greek.	Linguistics
Leslie Nathan Broughton, Ph.D., Assistant Professor of English.	English
Thomas Benjamin Brown, A.B., Instructor in Physics.	Physics
Arthur Wesley Browne, Ph.D., Professor of Chemistry.	Chemistry
William Benjamin Buck, Assistant in Wood Shop.	Manual Training
Earle Nelson Burrows, C.E., Assistant Professor of Civil Engineering.	Engineering
Clayton Joseph Buttery, A.B., Instructor in Romance Languages.	French
Walter Buckingham Carver, Ph.D., Assistant Professor of Mathematics.	Mathematics
Frederick D. Cheydeur, Dr. ès Lettres, Instructor in French, Williams College.	French
Hamlin E. Cogswell, Mus.M., Supervisor of Music, Washington, D. C.	Music
Lane Cooper, Ph.D., Professor of English.	English
Clyde Firman Craig, Ph.D., Assistant Professor of Mathematics.	Mathematics
Margaret Cramer, Teacher of Rhythm and Folk Dancing in Public Schools, Rochester.	Physical Education
Charles Henry Cunningham, Ph.D.	South America
Karl M. Dallenbach, Ph.D., Instructor in Psychology.	Psychology
Hollis Dann, Mus.D., Professor of Music.	Music
Herbert Joseph Davenport, Ph.D., Professor of Economics.	Economics
Hermann C. Davidsen, Ph.D., Assistant Professor of German.	German
Alexander M. Drummond, A.M., Assistant Professor of Public Speaking.	Public Speaking
Charles Love Durham, Ph.D., Professor of Latin.	Latin
Ellsworth David Elston, A.B., Instructor in Physical Geography.	Physical Geography
Archibald M. Erskine, B.Chem., Assistant in Chemistry.	Chemistry
Donald English, Ph.D., Assistant Professor of Economics.	Economics
Georgia Everest, Supervisor of General Art, Pratt Institute, Brooklyn.	Drawing and Art
Edwin George Fleming, A.B., Assistant in Public Speaking.	Public Speaking
John E. Foglesong, Assistant in Chemistry.	Chemistry
William Silliman Foster, Ph.D., Assistant Professor of Education.	Education
Jean Marius Gelas, Instructor in U. S. Military Academy, West Point.	Physical Training
Frederick R. Georgia, B.Chem., Instructor in Chemistry.	Chemistry
Roswell Clifton Gibbs, Ph.D., Assistant Professor of Physics.	Physics
Raleigh Gilchrist, A.B., Assistant in Chemistry.	Chemistry

*The names of the instructors in the College of Agriculture are given on page 201.

David Clinton Gillespie, Ph.D., Assistant Professor of Mathematics.	Mathematics
J. Earl Griffith, Head of Department of Drawing and Art, Central High School, Newark, N. J.	Drawing and Art
Genevieve Henry, Director of Girls Physical Education, High School of Commerce, Cleveland.	Physical Education
William H. Hoerrner, Professor of Music, Colgate University.	Music
Leroy Hooper, Foreman of Pattern Shop.	Manual Training
Helen Allen Hunt, Teacher of Music, Boston, Mass.	Music
Wallie Abraham Hurwitz, Ph.D., Assistant Professor of Mathematics.	Mathematics
Stuart Deming Jackson, A.B., Assistant in Chemistry.	Chemistry
Arthur Edward Johnstone, Teacher of Music, New York City.	Music
Johannes B. E. Jonas, Ph.D., Head of German Department, DeWitt Clinton High School, New York City.	German
Dexter Simpson Kimball, M.E., Professor of Machine Design and Industrial Engineering.	Industrial Education
Ernest R. Krøger, Teacher of Music, St. Louis, Mo.	Music
Joseph Peter Koller, B.Chem., Assistant in Chemistry.	Chemistry
George A. Land, Ph.D., Teacher of Latin in the Lawrenceville School.	Latin
Leo Paul Larkin, Assistant in Physics.	Physics
Lida J. Low, Teacher of Voice, Boston.	Music
Gustav Ernst Lundell, Ph.D., Assistant Professor of Chemistry.	Chemistry
William Edward Lunt, Ph.D., Professor of English History.	English History
Samuel Arthur Mahood, M.A., Instructor in Chemistry.	Chemistry
James Frederick Mason, Ph.D., Professor of Romance Languages.	French
David E. Mattern, A.B., Teacher of Music, Ithaca Schools.	Music
Edith H. Matzke, M.D., Adviser of Women.	Hygiene
Daniel Chauncey McCoy, Assistant in Chemistry.	Chemistry
Victor Elvert Monnett, A.B., Assistant Professor of Geology, University of Oklahoma.	Geology
Benton Sullivan Monroe, Ph.D., Assistant Professor of English.	English
Marcel Moraud, Bachelier ès Lettres, Instructor, Princeton University.	French
Guy Brooks Muchmore, A.B., Assistant Professor of Public Speaking.	Public Speaking
Carleton Chase Murdock, B.S., A.M., Instructor in Physics.	Physics
Bertha Mueller, Teacher in William Penn High School, Philadelphia, Pa.	German
Albert T. Olmstead, Ph.D., Associate Professor of History, University of Missouri.	History
Robert M. Ogden, Ph.D., Professor of Education.	Education
William Ridgley Orndorff, Ph.D., Professor of Organic and Physiological Chemistry.	Chemistry
Frederick William Owens, Ph.D., Assistant Professor of Mathematics.	Mathematics
Miles Albion Pond, Ph.B., Assistant Professor of Civil Engineering.	Descriptive Geometry
Paul Russel Pope, Ph.D., Professor of German.	German
Harry Payne Reeves, A.M., Associate Professor of Romance Languages, Ohio Wesleyan University.	Spanish
Harold Lyle Reed, Ph.D., Assistant Professor of Economics.	Economics
James T. Quarles, A.A.G.O., University Organist and Assistant Professor of Music.	Music
Ernest William Pettger, Ph.D., Assistant Professor of Applied Mechanics.	Mechanics
Floyd Karker Ricatmyer, Ph.D., Assistant Professor of Physics.	Physics
Arthur John Rider, B.S., M.S., Assistant in Chemistry.	Chemistry
Guillermo Rivera, A.M., Instructor in Spanish, Harvard University.	Spanish
Burton T. Scales, M.A., Director of Music, Girard College.	Music
Francis Robert Sharpe, Ph.D., Assistant Professor of Mathematics.	Mathematics
Alice Sheffer, Principal Fall Creek School, Ithaca.	Music
Louis L. Silverman, Ph.D., Instructor in Mathematics.	Mathematics
Signe Sjoegren, Assistant in Office of Medical Adviser to Women.	Physical Training
Virgil Snyder, Ph.D., Professor of Mathematics.	Mathematics
Katharine Starkey, M.D.	Physical Education
Edith M. Stone, Director of Music in Public Schools, Jackson, Michigan.	Music
William Strunk, jr., Professor of English.	English
Cory Sturgis, Instructor in Romance Languages.	Spanish
James Sullivan, Ph.D., State Historian and Director of the Division of History of New York State Education Department.	History
Clarence Ellsworth Townsend, M.E., Instructor in Machine Design.	Drawing

Leonard C. Urquhart, C.E., Instructor in Civil Engineering.	Engineering
Oscar Diedrich von Engeln, Ph.D., Assistant Professor of Physical Geography.	Geography
Albert Edward Wells, Professor of Machine Construction.	Industrial Education
Bernice White, Instructor in Music, Normal College, New York City.	Music
E. Jane Wisenall, Teacher of Music in High Schools, Cincinnati, Ohio.	Music
Harry Elmsley Wood, Director of Manual Training, Indianapolis, Ind.	Industrial Education
William K. Wright, Ph.D., Assistant Professor of Philosophy, Dartmouth College.	Philosophy
Wesley Daniel Zinnecker, Ph.D., Instructor in German.	German

There are no academic requirements for admission to the Summer Session except in the case of the College of Agriculture.

Teachers, supervisors, superintendents, extension workers, and others concerned with activities of an educational nature are admitted to Summer Session courses in the College of Agriculture regardless of previous academic preparation; others are admitted only on the submission of evidence of having satisfactorily completed at least two years of work in Cornell University or some other institution of equal standing.

Each student in the Summer Session must satisfy the instructor in charge of a course (unless it is elementary) that he is qualified to undertake the work of the course.

Credit toward an undergraduate degree may be obtained only by students regularly registered in one of the colleges of Cornell University. For credit toward the degree A.B., see page 69; for credit toward other undergraduate degrees, see the announcements of the respective courses in the Summer Session.

Students of the Summer Session who are not matriculated in the University may receive certificates of attendance and of work satisfactorily performed.

For the conditions under which graduate work may be pursued during the Summer Session, see page 50.

The tuition for the Summer Session is \$30. Tuition is free to students from New York State if all of their work is in subjects taught in the College of Agriculture; if any of their work is outside of the College of Agriculture, they must pay the regular tuition fee of \$30.

The residential halls, the libraries, and the infirmary are open during the Summer Session.

COURSES OF INSTRUCTION

EDUCATION

- A. Educational Psychology. Professor OGDEN. Daily except Sat., 9. Credit, two hours.
- B. Principles of Education. Professor OGDEN. Daily except Sat., 11. Credit, two hours.
- C. History of Education. Lectures, recitations, and prescribed readings. Assistant Professor FOSTER. Daily, except Sat., 10. Credit, two hours.
- D. The Technology of Memory and Learning. Lectures, recitations, and prescribed readings. Assistant Professor FOSTER. M W F, 12. Credit, one hour.
- E. Mental Tests. Lectures, and prescribed reading. Assistant Professor FOSTER. T Th, 12. Credit, one hour.

HYGIENE, FIRST AID, SCHOOL INSPECTION

- A. Personal Hygiene, First Aid, Home Nursing. Daily except Sat., 11. Stimson Hall. Dr. MATZKE.
- B. School Hygiene and School Inspection. Daily except Sat., 12. Dr. MATZKE.
- Physical Examinations and Personal Conferences. Consultations are open to all women registered in the Summer Session. Doctors MATZKE and STARKEY.

PHYSICAL EDUCATION FOR WOMEN

- A. Gymnastics: School Room and Playground. Daily except Sat., hour to be arranged. Misses ATKINSON and HENRY. Credit, one hour for A and one other course.
- B. Organization and Administration of Playgrounds. Daily except Sat., hour to be arranged. Misses ATKINSON and HENRY. Credit, one hour for B and one other course.
- C. Singing Games, Elementary Folk and Aesthetic Dancing. Daily except Sat., hour to be arranged. Misses ATKINSON and CRAMER. Credit, one hour for C and one other course.
- D. Folk and Aesthetic Dancing. Advanced Course. Daily except Sat., hour to be arranged. Misses ATKINSON and CRAMER. Credit, for D and one other course one hour.
- E. Swimming and Fencing. For this instruction a special charge is made: for swimming, \$10; for fencing, \$5, including outfit. Mr. GELAS.

INDUSTRIAL EDUCATION

- A. Problems of Industrial Education. Lectures and conferences. Daily except Sat., 12-1. Professor KIMBALL, and others.
- B. Manual Training for the Lower Grades. Daily except Sat., 2-4. Mr. WOOD.
- C. Wood Work for Pre-vocational and Junior High Schools. Daily, 8-11. Mr. HOOPER.
- D. Wood Working for Secondary Schools. Daily except Sat., 2-5. Mr. HOOPER.
- E. Shop Lectures and Conferences. T Th, 4-5. Mr. WOOD.
- F. Foundry Work for Secondary and Trade Schools.
- G. Forging for Secondary and Trade Schools.
- H. Machine Work for Secondary and Trade Schools. Mr. WELLS and Mr. BUCK.
- J. Freehand Drawing for Elementary and Secondary Schools. Daily except Sat., 9-12. University credit, two hours. Mr. GRIFFITH and Miss EVEREST.
- K. Design, Fine and Applied Art. (Open only to students who have completed course J or its equivalent.) Daily except Sat., 8-11. University credit, two hours. Mr. GRIFFITH and Miss EVEREST. Students who have completed courses J and K may continue their study, if so desired.
- L. Mechanical Drawing for Secondary Schools. Assistant Professor HAM.

PSYCHOLOGY

- A. Introduction to Psychology. Credit, two hours. Daily except Sat., 9. Dr. BORING.
- B. The Psychology of Attention: Theoretical and Practical. Credit, one hour. T Th, 11. Dr. DALLENBACH.
- C. The Psychology of the Unusual Mind. Credit, one hour. M W F, 11. Dr. BORING.
- D. Introductory Laboratory. Credit, two hours. M W F, 2.00-4.30. Drs. BORING, DALLENBACH, and Mr. BISHOP.
- E. Quantitative Laboratory. Credit, two hours. M W F, 2.00-4.30. Drs. BORING, DALLENBACH, and Mr. BISHOP.
- F. Advanced Work in Psychology. Hours and credit to be arranged. Drs. BORING and DALLENBACH.

PHILOSOPHY

- A. **History of Modern Philosophy.** Daily except Sat., 9. No prerequisites. Credit, two hours. Assistant Professor WRIGHT.
- B. **Philosophy and Psychology of Religion.** Daily except Sat., 12. No prerequisites. Credit, two hours. Assistant Professor WRIGHT.
- [C. **Practical Problems in Social and Political Morals.** Daily except Sat. Credit, two hours.] Not given in 1917.

ENGLISH

- A. **Composition.** Daily except Sat., 8. Credit, two hours. Mr. BALDWIN.
This course and course B (see below), taken together, will be considered the equivalent of the first term of course 1, or course 3, in the regular University session.
- B. **Introductory Course in Literature.** Daily except Sat., 9. Credit, two hours. Assistant Professor BROUGHTON.
This course and course A (see above), taken together, will be considered the equivalent of the first term of course 1, or course 3, in the regular University session.
- C. **Shakespeare.** Daily except Sat., 10. Credit two hours. Mr. BALDWIN.
- D. **Modern English Grammar.** Daily except Sat., 8. Credit, one hour. Assistant Professor BAILEY.
- E. **An Introduction to Modern English Poetry.** Daily except Sat., 9. Credit, two hours. Professor COOPER.
- F. **Advanced Composition and Style.** Daily except Sat., 10. Credit, two hours. Assistant Professor MONROE.
- G. **English Usage and Style.** Daily except Sat., 11. Credit, two hours. Professor STRUNK.
- H. **Teachers' Course.** Daily except Sat., 9. Credit, two hours. Assistant Professor BAILEY.
- K. **American Literature.** Daily except Sat., 12. Credit, two hours. Assistant Professor BROUGHTON.
- L. **The English Language.** Daily except Sat., 12. Credit, two hours. Assistant Professor MONROE.
- M. **Methods and Aims in the Study of Literature.** Daily, except Sat., 11. Credit, two hours. Professor COOPER.
- N. **Recent English Poetry.** Daily except Sat., 10. Credit, two hours. Professor STRUNK.
- O. **Old English.** Daily except Sat., 11. Credit, two hours. Assistant Professor MONROE.

PUBLIC SPEAKING—ORAL ENGLISH

- A. **Public Speaking.** Daily except Sat., 11. Credit, two hours. Assistant Professor DRUMMOND and Mr. FLEMMING.
- B. **Voice Training.** Daily except Sat., 8. Credit, one hour. Special work may be arranged with the instructor for one hour additional credit. Assistant Professor MUCHMORE.
- D. **Oral Reading.** Daily except Sat., 10. Credit, two hours. Assistant Professor MUCHMORE.
- E. **The Production of School Plays.** M W F, 9. Credit, one hour. Consent of instructor necessary for admission. Assistant Professor DRUMMOND.

FRENCH

- A. **First Year French.** Daily except Sat., 8 and 12. Professor MASON. University credit, four hours. Entrance credit, one unit.
- B. **Second Year French.** Daily except Sat., 8 and 12. Mr. BUTTERY. University credit, four hours. Entrance credit, one unit.
- C. **Third Year French.** Daily except Sat., 8 and 12. University credit, four hours. Entrance credit, one unit. Mr. CHEYDLEUR.
- D. **Advanced Composition and Conversation.** Daily except Sat., 9. Mr. MORAUD. Credit, two hours.
- F. **History of French Literature.** Daily except Sat., 11. Mr. MORAUD. Credit, two hours.
- G. **Old French Texts.** Daily except Sat., 10. Mr. CHEYDLEUR. Credit, two hours. Prerequisite course E. (Elementary French Philology.)

SPANISH

- A. **First Year Spanish.** Daily except Sat., 8 and 12. Associate Professor REEVES. University credit, four hours. Entrance credit, one unit.
- B. **Second Year Spanish.** Daily except Sat., 8 and 12. Mr. CARPENTER. University credit, four hours. Entrance credit, one unit.

C. **Third Year Spanish.** Daily except Sat., 8 and 12. Mr. RIVERA. University credit, four hours. Entrance credit, one unit.

D. **Spanish Composition and Conversation.** Daily except Sat., 11. Mr. CARPENTER. University credit, two hours.

E. **Spanish Commercial Correspondence.** Daily except Sat., 9. Mr. RIVERA. University credit, two hours.

GERMAN

A. **First Year German.** Daily except Sat., 8 and 12. Professor POPE. University credit, four hours. Entrance credit, one unit.

B. **Second Year German.** Prerequisite: one year of high school German or its equivalent. University credit, four hours. Daily except Sat., 8 and 12. Dr. JONAS.

C. **Third Year German.** Prerequisite: two years of high school German or its equivalent. The completion of this course entitles the student to the third unit of entrance credit in German. Daily, 8 and 12. Dr. ZINNECKER. University credit, five hours.

[Advanced Course in Modern German Grammar.] Not given in 1917.

D. **History of the German Language.** Daily except Sat., 11. Professor BOESCHE. Credit, two hours.

E. **Advanced Composition and Conversation.** Daily except Sat., 8. Assistant Professor DAVIDSEN. Credit, two hours.

[Studies in the Style and Technique of the Nineteenth Century Prose Writers. Assistant Professor DAVIDSEN.] Not given in 1917.

[Comparative Studies in the German Drama. Assistant Professor DAVIDSEN.] Not given in 1917.

F. **Lessing. An Introduction to Classical German Literature.** Daily except Sat., 9. Assistant Professor DAVIDSEN. Credit, two hours.

[Lessing's Life, Writings, and Influence. Professor BOESCHE.] Not given in 1917.

G. **Goethe's Faust. Parts I and II.** Daily except Sat., 12. Professor BOESCHE. Credit, two hours.

[Life and Works of Schiller.] Not given in 1917.

H. **Training Course for Teachers.** Daily except Sat., 10. Dr. JONAS. Credit, two hours, with an extra hour for work assigned.

J. **Middle High German.** Daily except Sat., 11. Professor POPE. Credit, two hours.

[Richard Wagner. Professor POPE.] Not given in 1917.

LATIN

A. **The First Two Years of Latin.** Daily except Sat., 11. Dr. LAND. Credit two hours.

B. **Latin Composition.** Daily except Sat., 10. Dr. LAND. Credit, two hours.

C. **Vulgar Latin.** Daily exc. Sat., 8. Professor DURHAM.

D. **Petronius, Cena Trimalchionis; inscriptions of Pompeii, and early Christian and other vulgar Latin inscriptions.** Daily exc. Sat., 9. Professor DURHAM.

RUSSIAN

A course in beginning Russian is given if six or more students register for it with the Director of the Summer Session not later than July 1.

SCIENCE OF LANGUAGE

A. **Introduction to the Study of Language.** Daily except Saturday, 12. Professor BRISTOL. Credit, two hours.

HISTORY AND GOVERNMENT

A. **American Government and Politics.** Daily except Sat., 8. Credit, two hours. Professor BRETZ.

B. **American History. 1750-1848.** Daily except Sat., 10. Credit, two hours. Professor BRETZ.

[American History. The Middle Period, 1815-1860. Professor BRETZ.] Not given in 1917.

[American History. The Period of Civil War and Reconstruction, 1850-1875. Professor BRETZ.] Not given in 1917.

C. **Greek and Roman History.** Daily except Sat., 9. Credit two hours. Professor OLMSTEAD.

D. **The Near Eastern Question.** Daily except Sat., 11. Credit, two hours. Professor OLMSTEAD.

E. **English History to 1485.** Daily except Sat., 10. Credit, two hours. Professor LUNT.

[F. English History, 1485-1916. Professor LUNT. A continuation of course E to the present. Not given in 1917.

G. English History since 1815. Daily except Sat., 9. Credit, two hours. Professor LUNT.

H. Seminary in English History. One two-hour session each week. Professor LUNT.

K. Latin America; Social, Political and Economic. Daily except Sat., 9. Dr. CUNNINGHAM.

L. Methods of Teaching History, and Civics in the High School. Daily except Sat., 11. Credit, two hours. Dr. SULLIVAN.

M. Studies in Local History. Daily except Sat., 12. Dr. SULLIVAN. Credit, two hours.

ECONOMICS

A. Principles of Economics. Twice daily except Sat., 11 and 12. Credit, four hours. Professor DAVENPORT.

B. Money and Banking. Twice daily except Sat., 10 and 11. Credit, four hours. Assistant Professor REED.

C. Elements of Accounting. Daily except Sat., 9. Credit, two hours. Assistant Professor ENGLISH.

D. Interpretation of Accounts. Daily except Sat., 8. Credit, two hours. Assistant Professor ENGLISH.

MUSIC

First year courses are designated A. Second year courses are designated B. Third year courses are designated C. Fourth year courses are designated D. More advanced courses are designated E.

Sight Reading—A. Daily except Sat., 10:15 and 12:15. Miss BARTHOLOMEW, Miss SHAFFER.

Sight Reading—B. Daily except Sat., 12:15, (two sections). Mr. SCALES, Prof. HOERRNER.

Sight Reading—C. University credit, one hour. Daily except Sat., 11:15. Mr. SCALES; 12:15. Mr. COGSWELL.

Dictation—A. Daily except Sat., 9:15, 10:15 and 12:15, Miss BARTHOLOMEW, Miss SHAFFER.

Dictation—B. University credit, two hours. Daily except Sat., 9:15 and 10:15. Mr. —.

Dictation—C. University credit, two hours. Daily except Sat., 9:15, Miss WISENALL; 11:15, Mr. —.

Material and Methods—B. University credit, two hours. Daily except Sat., 9:15 and 11:15. Miss WHITE.

Material and Methods—C. University credit, two hours. Daily except Sat., 10:15, Professor DANN.

High and Normal School Music—D. University credit, two hours. Daily except Fri. and Sat., 12:15, Professor DANN.

Practice Teaching—D. University credit, one hour. Daily except Sat., 9:15 and 10:15, Miss STONE.

Harmony (Preparatory)—A. Daily except Sat., 9:15, Mr. SCALES.

Harmony—B. Open to students who have completed Harmony A or passed it upon entrance. University credit, two hours. Daily except Sat., 10:15, Mr. BALLARD; 11:15 and 12:15, Miss WISENALL.

Melody and Harmony—C. University credit, two hours. Daily except Sat., 9:15 and 12:15. Mr. JOHNSTONE, Mr. BALLARD.

Melody and Harmony—D. University credit, one hour. Daily except Sat., 11:15, Mr. JOHNSTONE.

Chorus—A. Daily except Wed. and Sat., 8:00. Mr. COGSWELL.

Advanced Chorus—Open to all C and D students, and to B students who can qualify. Daily except Sat., 8:00, Professor DANN.

Choral Conducting—D. Open to fourth year students only. M, T, W, 9:15 and 10:15, Professor HOERRNER.

Orchestral Conducting—D. Open to fourth year students only. Fri., 12:15, Mr. MATTERN. Other hours to be arranged.

School Orchestra—C or D. (May be taken either as a C or D subject.) Daily, except Wed. and Sat., 3:00, Mr. MATTERN.

Violin Classes. Hours to be arranged, Mr. MATTERN.

Community Orchestra. Wed., 7:30 P. M., Mr. MATTERN.

Song Interpretation—B or C. May be taken either the second or the third year. Daily, except Wed. and Sat., 2:15, Miss LOW.

Voice Training—D. Open to D and E students only. Daily, except Wed. and Sat., at 2:15, Mrs. HUNT.

Principles and Practice of Teaching—D. This is a home-study course.

History of Music and Current Events—C. This is a home-study course.

History of Music and Current Events—D.

Musical Appreciation—E. (Elective.) Open to advanced students. T and Th, 10:15, Mr. JOHNSTONE.

Musical Composition—E. (Elective.) Open only to those who have completed Melody and Harmony D. University credit, one hour. M, W and F, 10:15, Mr. JOHNSTONE.

Orchestra Technique—E. (Elective.) Open to advanced students. University credit, one hour. T and Th, 11:15, Mr. COGSWELL.

Progressive Series of Piano Lessons (Elective)

I. **Elementary Grade.** Daily except S, hours to be arranged. Mr. KROEGER. University credit, two hours.

II. **Intermediate Grade.** Daily except S, hours to be arranged. Mr. KROEGER. University credit, two hours.

Completion of Course I a prerequisite for entrance in Course II.

Normal Course in Piano Teaching. Elementary and Intermediate. University credit, two hours. Daily except W and S, 3 P. M. Mr. KROEGER.

MATHEMATICS

In addition to the courses noted below, each teacher will have a daily office hour for consultation with students. It is urged that this opportunity be utilized by all concerned.

In the following list, courses 1 to 62 are the equivalent of those having the same number in the Announcement of the College of Arts and Sciences for 1916-1917.

Courses 1, 2, 3 are equivalent to the advanced entrance requirements of Cornell University. University credit for 1, 2, 3, three hours each.

1. **Solid Geometry.** Daily, 10. Assistant Professor SHARPE. Daily, 9. Assistant Professor CRAIG.

2. **Advanced Algebra.** Daily, 10. Assistant Professor OWENS. Daily 9. Dr. SILVERMAN.

3. **Trigonometry.** Daily, 11. Assistant Professor SHARPE. Daily 10. Dr. SILVERMAN.

61. **Analytic Geometry and the Calculus.** Credit, six hours. Daily, 8 and 11. Assistant Professor GILLESPIE.

62. **Analytic Geometry and the Calculus.** Credit, six hours. Daily, 8 and 11, in three sections: Assistant Professor CARVER, Assistant Professor HURWITZ, and Mr. —.

G. **Projective Geometry.** Daily, 9. Credit three hours. Assistant Professor OWENS.

H. **Advanced Calculus.** Daily 10. Credit three hours. Assistant Professor CRAIG.

Mathematics for Teachers

K. **Foundation of Elementary Mathematics.** Daily except Sat., 9. Credit two hours. Professor SNYDER.

L. **Correlation in Mathematics.** Daily except Sat., 11. Credit two hours. Professor SNYDER.

PHYSICS

2. **Lectures with Experiments and Recitations.** Credit five hours. Daily 8-10. Professors — and GIBBS.

3. **Lectures, Recitations and Problems.** Credit six hours. Assistant Professor GIBBS.

5. **Informal Conference Work for Teachers.** Assistant Professor GIBBS. No University credit.

8. **General Physics.** Credit two hours. Prerequisites: Physics 3 or the equivalent and a working knowledge of analytic geometry and the calculus. Daily exc., Sat, 8. Mr. BIDWELL.

9. **General Physics.** Prerequisite: Physics 8. Daily exc. Sat., 9. Credit, two hours. Mr. BROWN.

10. **Physical Laboratory.** Credit one to three hours. Prerequisite Physics 2 or the equivalent. (Open to students taking Physics 2 simultaneously). Assistant Professor RICHTMYER and Mr. BIDWELL.

12. **Physical Experiments.** Credit one to four hours. Prerequisites: the equivalent of eight hours of college physics (unless either Physics 8 or 9 be taken in parallel) and a knowledge of the elements of analytic geometry and the calculus. One to five three hour periods per week. Daily, except Sat., 10-1 (or 9-12 by special arrangement.) Assistant Professor RICHTMYER and Mr. BROWN.

14. **Physical Experiments.** Students of whom Physics 14 is required in the regular academic year may substitute therefor Physics 12, as given in the summer session.

[20a. Heat.] Not given in 1917.

[20b. Heat.] Not given in 1917.

[21a. Light.] Not given in 1917.

[21b. Light.] Not given in 1917.

[22a. Electricity and Magnetism.] Not given in 1917.

[22b. Electricity and Magnetism.] Not given in 1917.

23a. Properties of Matter. Daily except Sat., 8. Mr. MURDOCK.

[23b. Properties of Matter.] Not given in 1917.

25. Advanced Laboratory Practice. Open to those students who have had Physics 12 or its equivalent. Credit varies with the amount of work done. The laboratory will be open daily except Sat., 9-12. Mr. MURDOCK and other members of the staff.

44. X-Ray Laboratory. July 30 to August 17, daily except Sat., 10 to 12. Professor —.

CHEMISTRY

201. Introductory Inorganic Chemistry. a. Lectures daily except Sat., 12. Professor BROWNE and Mr. MCCOY. b. Laboratory work, M W F, 8-12, and T Th F, 9-12. c. Recitations. T Th F, 8. Credit for a, b and c, six hours.

206. Elementary Qualitative and Quantitative Analysis. Credit, two, three, or five hours.

A. Qualitative Analysis. Lectures, M W F, 11. Laboratory, daily except Sat., 1:30-4:30. Mr. GILCHRIST and Mr. —.

B. Quantitative Analysis. Elementary. Lectures, T Th, 11. Laboratory, M W F, 8-11. Credit, two hours. Assistant Professor LUNDELL and Mr. KOLLER.

207. Qualitative Analysis. Lectures and recitations, M W F, 11, T Th, 8. Laboratory work, daily except Sat., 1:30-4:30, and M W F, 8-11. Mr. GILCHRIST, and Mr. —. Credit, one to six hours.

212. Quantitative Analysis. Lectures, daily except Sat., 8. Assistant Professor LUNDELL. Laboratory, daily except Sat., 9-1. Assistant Professor LUNDELL and Mr. KOLLER. Credit, four, five, or six hours.

214. Quantitative Analysis, Advanced Course. Laboratory practice at hours to be arranged. Credit, one, two, three, or four hours. Assistant Professor LUNDELL and Mr. KOLLER.

216. Electrochemical Analysis. Laboratory practice at hours to be arranged. Assistant Professor LUNDELL and Mr. KOLLER.

219. Qualitative and Quantitative Gas Analysis. Lectures, daily except S., 12. Credit, two hours. Assistant Professor —.

220. Technical Gas Analysis. Laboratory practice, at hours to be arranged. Credit, two hours. Assistant Professor — and Mr. ERSKINE.

Courses 219 and 200 should be taken at the same time.

[224. Opticochemical Methods. Lectures, daily except S., 12. Laboratory practice at hours to be arranged. Credit, three hours. Assistant Professor —.] Not given in 1917.

230. Organic Chemistry. A. Aliphatic compounds. Lectures and recitations. Daily except Sat., 8. Laboratory practice. Credit, four to six hours. Professor ORNDORFF, Dr. MAHOOD, and Mr. JACKSON.

B. Aromatic Compounds. Lectures and recitations. Daily except Sat., 10. Laboratory practice. Credit, four to six hours. Dr. MAHOOD and Mr. JACKSON.

This course presupposes a knowledge of elementary chemistry, and Part B must be preceded or accompanied by Part A. The two parts of the course may be taken together, or Part A may be taken one summer and Part B the following summer.

231. Organic Chemistry. A. Aliphatic compounds. Lectures and recitations. Daily except Sat., 8. Credit, three hours. Professor ORNDORFF and Mr. JACKSON.

B. Aromatic compounds. Lectures and recitations. Daily except Sat., 10. Credit, three hours. Dr. MAHOOD and Mr. JACKSON.

These lectures and recitations are the same as those of Course 230. Course 230 should be taken in preference to course 231 whenever it is possible.

232. Organic Chemistry, Shorter Course. Aliphatic and aromatic compounds. Lectures and recitations. Daily except Sat., 8, 10, during the first three weeks of the session and 8 only during the remainder of the session. Laboratory practice. Credit, four hours. Professor ORNDORFF, Dr. MAHOOD, and Mr. JACKSON.

The lectures and recitations of this course include all of those of Course 230A, and the first half of those of Course 230B. Course 232 presupposes a knowledge of elementary chemistry, and is designed more particularly for students registered in the Colleges of Medicine and Agriculture, although it may be elected by any suitably prepared student desiring a course in Organic Chemistry shorter than 230 or 231.

234. Advanced Organic Chemistry. Credit, two or more hours. Professor ORNDORFF, Dr. MAHOOD, and Mr. JACKSON.

237. Methods of Organic Analysis. Hours to be arranged. Credit, two or more hours. Professor ORNDORFF and Dr. MAHOOD.

248. Selected Topics in Advanced Inorganic Chemistry. Lectures, M W F, 10. Credit, one hour.

269. Elementary Sanitary Chemistry. Credit, five hours. Lectures daily except Sat., 8. Mr. GEORGIA.

296. Research. Credit, one to six hours.

GEOGRAPHY AND GEOLOGY

Lecture Courses in Geography and Geology

- A. **Physical Geography.** M T W Th, 9. Assistant Professor VON ENGELN. Credit, two hours.
- B. **Commercial and Industrial Geography.** M T W Th, 11. Assistant Professor VON ENGELN. Credit, two hours.
- E. **Geology. A General Introductory Course.** M T W Th, 10. Assistant Professor MONNETT. Credit, two hours.

Laboratory and Excursion Courses in Both Geography and Geology

- H. **Physical Geography, Laboratory Course.** T Th, 2-4. Mr. ELSTON. Credit, one hour.
- I. **Geology, Laboratory Course.** W F, 2-4. Assistant Professor MONNETT. Credit, one hour.
- J. **Geography and Geology, Field Course.** A series of excursions under the general charge of Assistant Professor VON ENGELN and other members of the staff.

Longer Excursions

10. **Niagara Falls and Gorge.** By special train and trolley cars. Expense between \$8 and \$10. Overnight at Niagara Falls. July 28.

All the important scenic features of Niagara Falls and Gorge are visited and their physiographic history interpreted. As a whole these phenomena constitute a striking record of some of the most interesting chapters in the geologic and physiographic history of North America. Before the trip a special meeting of those interested will be held in the Physical Geography Laboratory when the relations of the different places will be explained and illustrated by large scale relief model of the Niagara Region. Students are advised to send to Director U. S. Geological Survey, Washington, D. C., for a copy of Niagara Folio, No. 190, in octavo form, cost \$.50 in coin or money order.

There may be opportunity for members of the class who are interested primarily in industrial and commercial geography to see something of the power development at Niagara, and for the stratigraphic geologist to collect fossils from the great Niagara Gorge section, but the main portion of the class will devote its attention to the dynamic geology and physiographic interest of the region.

11. **Watkins Glen.** By special train. Expense about \$2.. August 4.

Watkins Glen is considered one of the most beautiful scenic spots in the country. It has been secured for a state park by New York and all parts of it made accessible. The excursion party will study the gorge, its pot holes and falls in detail; and consider its relations to the Seneca Lake Valley in comparison with the conditions at Ithaca as referred to the Cayuga valley. Train ride across the dissected upland country to the south and west between Ithaca and Watkins.

SHOP WORK AND DRAWING FOR ENGINEERING STUDENTS

Drawing

For further information regarding course C, apply to Professor Pond; for information regarding the drawing and shop courses apply to Professor Kimball.

A. **Mechanical Drawing.** A course in drawing for beginners, covering use of instruments, orthographic and isometric projection, inking, tracing, conventions, working drawings, M W F, 8-11 and daily except Sat., 2-5. Assistant Professor —.

B. **Machine Sketching and Drawing.** A more advanced course in mechanical drawing for those who have had the equivalent of course A. Sketching of machine parts, machine drawing from sketches, empirical design. This course is an application of the work in course A to such machine designing as can be done without a knowledge of mechanics. M W F, 8-11 and daily except Sat., 2-5. Professors KIMBALL and —.

C. **Descriptive Geometry.** Lectures, daily except Sat., 9. Recitations and drawing daily except Sat., 10-12. Assistant Professor POND.

Shop Work

- A. **Pattern Making.** Mr. HOOPER.
- B. **Foundry Work.**
- C. **Forge Work.**
- D. **Machine Work.** Daily except Sat., 8-11, 1-5, and Sat., 8-11. Mr. WELLS and Mr. BUCK.
- E. **Manual Training.**

MECHANICS OF ENGINEERING

Course A is the equivalent of M.5 and Course B is the equivalent of M.6 of Sibley College.

Course C. 1 is the equivalent of the first term of course 20, and course C. 2 is the equivalent of the second term of course 20 of the College of Civil Engineering.

A. **Mechanics.** Lectures and recitations, two hours daily, 8-9 and 11-12. Assistant Professor E. W. RETTGER and Mr. W. R. CORNELL.

B. Mechanics. Lectures and recitations, two hours daily, 9-10 and 12-1.

C. Mechanics C. 1. By course C. 1 is meant a course comprising those portions of A and B that cover the ground of the first term work of course 20 of the College of Civil Engineering.

Mechanics C. 2. By course C. 2 is meant a course comprising those portions of A and B that cover the ground of the second term work of course 20 of the College of Civil Engineering.

BRIDGE AND STRUCTURAL ENGINEERING

C. E. 71. Structural Design and Bridge Stresses. Credit, two or four hours. Prerequisite Mechanics 20. This course is equivalent to first term C. E. 71. Lectures, recitations, computations, and drawing at hours to be assigned. Assistant Professor BURROWS and Mr. URQUHART.

C. E. 71. Bridge Design. Credit, four hours. Prerequisites. Structural Design and Bridge Stresses. Lectures, computations, and drawing at hours to be assigned. Assistant Professor BURROWS and Mr. URQUHART.

C. E. 72. Reinforced Concrete Arch. Credit, three hours. Prerequisites Mechanics 20, and that portion of course 71 which deals with elementary graphic statics. Lectures, computation, and drawing, at hours to be assigned. Assistant Professor BURROWS and Mr. URQUHART. This course may be substituted for Engineering Design, C. E. (91 f.)

C. E. 77. Concrete Construction. Credit, three hours. Prerequisite Mechanics 20. Assistant Professor BURROWS and Mr. URQUHART.

HYDRAULICS

Hydraulics. Twice daily (except Sat.), 8 and 12; two computing periods per week from 2 to 4:30.

STATE COLLEGE OF AGRICULTURE

OFFICERS

Albert Russell Mann, A.M., Dean of the College of Agriculture, Director of the Experiment Station, and Director of Extension Service.
 Cornelius Betten, Ph.D., Secretary and Registrar.

STAFF OF INSTRUCTION

William P. Alexander, Assistant in Entomology.	Entomology
Arthur Augustus Allen, Ph.D., Assistant Professor of Ornithology.	Ornithology
F. E. Andrews, Foreman of Instruction Flocks in Poultry Husbandry.	Poultry Husbandry
Thomas Alexander Baker, B.S., Instructor in Animal Husbandry.	Animal Husbandry
Elmer Eugene Barker, A.B., Ph.D., Assistant Professor of Plant Breeding.	Plant Breeding
Earl Whitney Benjamin, Ph.D., Assistant Professor of Poultry.	Poultry Husbandry
Beulah Blackmore, B.A., Assistant Professor of Home Economics.	Home Economics
Harold Eugene Botsford, Instructor in Poultry Husbandry.	Poultry Husbandry
Lucile Brewer, B.S., Assistant Professor in Home Economics.	Home Economics
H. P. Buchan, Foreman Incubation and Brooding.	Poultry Husbandry
Harry Oliver Buckman, Ph.D., Asst. Professor of Soil Technology.	Soils
Helen Canon, Instructor in Home Economics.	Home Economics
Doak Bain Carrick, M.S., Assistant in Pomology.	Pomology
Mrs. Anna Botsford Comstock, B.S., Assistant Professor of Nature-Study.	Nature-Study
George Walter Cavanaugh, B.S., Professor of Chemistry in its Relations to Agriculture.	Chemistry
Ralph Wright Curtis, M.S.A., Professor of Landscape Art.	Landscape Art
George Charles Embury, Ph.D., Assistant Professor of Aquiculture.	Natural History
J. H. Faull, Ph.D., Professor of Botany in University of Toronto.	Botany
S. W. Frost, B.S., Assistant in Entomology.	Entomology
Elizabeth Genung, B.S.A., M.S.A., Teacher Simmons College, Boston, Mass.	Home Economics
Julia Gleason, B.S., Instructor in Home Economics.	Home Economics
Jean Grey, State Normal College.	Physical Training
L. A. Hausman, M.A., Instructor in Meteorology.	Meteorology
Arthur John Heinicke, Ph.D., Instructor in Pomology.	Pomology
Laurence Hill, Director of Physical Training, Albany, N. Y.	Physical Training
Mary F. Henry, Instructor in Home Economics.	Home Economics
• Arthur Hollis, Director of Physical Training, Rural Schools of Oneida County.	Physical Training
H. S. Jackson, A.M., Professor of Plant Pathology.	Plant Pathology
Oskar Augustus Johannsen, Ph.D., Professor General Biology.	Biology
Robert Nuttall Jones, Assistant in Botany.	Botany
Olney Brown Kent, B.S., Instructor in Poultry Husbandry.	Poultry Husbandry
Adele Koch, B.S., Assistant in Home Economics.	Home Economics
Charles Ralph Kopman, Assistant in Poultry Husbandry.	Poultry Husbandry
George Nieman Lauman, B.S.A., Professor of Rural Economy.	Rural Economy
C. W. Leister, Assistant in Ornithology.	Ornithology
David Lumsden, Assistant Professor of Floriculture.	Floriculture
William F. Lusk, M.S.A., Professor of Agricultural Education, University of Minnesota.	Rural Education
Lawrence Howland MacDaniels, A.B., Instructor in Botany.	Botany
DeVoe Meade, B.S., Instructor in Animal Husbandry.	Animal Husbandry
Winifred Moses, B.S., Instructor in Home Economics.	Home Economics
Juan Estevan Reyna, E.E., Instructor in Drawing.	Drawing
Frank Elmore Rice, Ph.D., Assistant Professor in Agricultural Chemistry.	Chemistry
Henry William Schneck, B.S., M.S., Instructor in Vegetable Gardening.	Vegetable Gardening
Susan Bender Sipe, J. O. Wilson Normal School, Washington, D. C.	Rural Education
William L. Stark, Director Physical Training, Rural Schools of Schenectady County.	Physical Training

William Alonzo Stocking, jr., B.Agr., B.S.A., M.S. in Agr., Professor of Dairy Industry.

Dairy Industry

Harvey Elmer Stork, A.B., Assistant in Botany.

Botany

Anna C. Stryke, A.B., Instructor in Entomology.

Entomology

Clark Leonard Thayer, B.Sc., Instructor in Floriculture.

Floriculture

Edward Mowbray Tuttle, A.B., Assistant Professor of Rural Education.

Rural Education

Martha Van Rensselaer, A.B., Professor of Home Economics.

Home Economics

Karl McKay Wiegand, Ph.D., Professor of Botany.

Botany

Frances E. Vinton, A.B., Instructor in Home Economics.

Home Economics

COURSES IN THE COLLEGE OF AGRICULTURE

ANIMAL HUSBANDRY

A. Principles and Practice of Feeding Animals. Credit two hours. Lectures, M W F, 10. Practice, T Th, 10-12:30. Mr. BAKER.

B. Principles of Animal Breeding, and Elementary Judging. Credit, three hours. Lectures, daily except S, 9. Laboratory T Th, 2-4:30. Mr. MEADE.

BACTERIOLOGY

A. Bacteriology. Credit, two hours. Lectures T Th, 9. Laboratory M W F, 2-5. Laboratory fee, \$2.00.

BIOLOGY

A. General Biology. Credit, three hours. Lectures daily except S, 11. Laboratory and field work, sec. A, M W F, 2-4:30; sec. B, T Th, 2-4:30, S, 8-10:30. Professor JOHANNSEN and Mr. ——. Laboratory fee, \$2.50.

H. Aquiculture. Credit, one hour. Lectures T Th, 9. Assistant Professor EMBODY.

BOTANY

A. Elementary Botany. Credit, three hours. Lectures, M W, 8. Laboratory, M W, 9-1, F, 8-1, with additional reading or field work. Professor FAULL and Mr. ——. Laboratory fee, \$3.50.

B. Elementary Morphology of Seed Plants. Credit, one hour. Lectures T, 2-3. Laboratory T, 3-5:30; Th, 2-4:30, with some additional reading. Professor FAULL and Mr. ——. Laboratory fee, \$2.

D. Identification, Classification, and Ecology of the Higher Plants. Credit, two hours. Prerequisite: some training in structural botany taken previously or in connection with this course. Lectures Th, 8. Laboratory or field, T, 8-1, Th, 9-1. Professor WIEGAND and Mr. METCALF. Laboratory fee, \$2.50.

E. Trees and Shrubs. Credit, two hours. Prerequisite: some training in structural botany, taken previously or in conjunction with this course. Lectures W, 2. Laboratory or field work M, 2-5, W, 3-5, F, 2-5. Mr. MACDANIELS. Laboratory fee, \$2.50.

H. Identification and Classification of Lichens, Liverworts, Mosses, and Ferns. Credit, one hour. Prerequisite: a general knowledge of structural botany. Laboratory and field work, T Th, 2-5. Professor WIEGAND and Assistants. Laboratory fee, \$2.

(The following courses are given under the direction of the Department of Plant Pathology)

I. Parasitic Fungi. Credit, two hours. Prerequisite general introductory botany. Lectures M W, 8. Laboratory or field work M W, 9-1. Professor JACKSON. Fee \$3.

J. Fleshy Fungi. Credit two hours. Prerequisite general introductory botany. Lecture, F, 8. Laboratory or field work F, 9-1, 2-5:30, with some additional reading or field work. Professor JACKSON. Fee \$3.

CHEMISTRY

A. Agricultural Chemistry. Credit, four hours. Prerequisite: Chemistry I, or its equivalent. Lectures, daily, 8. Recitations, M W F, 9. Professor CAVANAUGH.

B. Agricultural Chemistry. Credit, two hours. Prerequisite Chemistry I and 6, or the equivalent. M W F, 11-1; 2-4:30. Assistant Professor RICE. A laboratory course designed to accompany course A.

C. Household Chemistry. Credit, two hours. Prerequisites: Chemistry I and 6, or the equivalent. Lectures, daily except S, 10. Professor CAVANAUGH.

D. Household Chemistry. Credit, two hours. M W F, 11-1; 2-4:30. Assistant Professor RICE. A laboratory course designed to accompany course C.

DRAWING

A. Mechanical Drawing. Credit, two hours. Eighteen hours' work a week will be required for the course. Mr. REYNA.

B. Perspective Drawing. Credit one hour. Nine hours actual work a week will be required for the course. Mr. REYNA.

ENTOMOLOGY

A. Insect Life. Credit, two hours. Lectures, T Th, 8. Practical exercises T Th and F, 2-4:30. Miss STRYKE and —.

D. Elementary Morphology of Insects. Credit, three hours. Laboratory open daily except S, 8-5. Twenty-one hours of laboratory work per week required. An introductory laboratory course required of all students who plan to do advanced work in entomology. Laboratory fee, \$2.

F. Elementary Systematic Entomology. Credit two hours. Fifteen hours of laboratory work per week required. Must be preceded or accompanied by course 4.

FLORICULTURE

A. Garden Flowers. Credit, one hour. Lectures, T Th, 8. Laboratory, F, 2-4:30. Professor LUMSDEN and Mr. THAYER.

B. Indoor Flower Growing. Credit, one hour. Lectures, M W, 10; Laboratory, W, 2-4:30. Mr. THAYER.

HOME ECONOMICS

A. Elementary Course in Foods. Credit, four hours. Lectures and recitations daily except S, 12. Laboratory practice daily except S, 9-12 or 2-5. Miss MOSES and Miss KOCH. Laboratory fee \$10.

B. Advanced Course in Food Preparation. Credit, two hours. Laboratory practice daily except S, 8-11. Miss BREWER. Laboratory fee, \$10.

C. 1. Human Nutrition. Credit, three hours. Lectures and recitations, daily except S, 11. Laboratory practice, T Th, 2-5:30. Miss MOSES. Laboratory fee, \$7.50.

D. Household Management. Credit, two hours. Lectures, daily except S, 8. Professor VAN RENSSELAER and Miss —.

E. 1. Extension in Home Economics. Credit, three hours. Practice daily except S, 2-5, and conferences to be arranged. Professor VAN RENSSELAER and Miss BREWER. Laboratory fee, \$5.

E. 2. Organization of Extension Material. Credit, two hours. Lectures daily except S, 12. Miss CANON.

G. Elementary Clothing and Handwork. Credit, two hours. Practice daily except S, 8-11 or 2-5. Miss BLACKMORE and Miss GLEASON.

Estimated expenses, from \$5 to \$10. Laboratory fee, \$3.00.

H. Draping, Drafting, and Elementary Dressmaking. Credit, two hours. Prerequisite course G. Practice daily except S, 2-5. Miss BLACKMORE. Laboratory fee, \$4.00

I. Dressmaking. Credit, two hours. Prerequisite courses G and H. Practice daily except S, 8-11. Miss BLACKMORE. Laboratory fee \$3.00.

LANDSCAPE ART

C. The Arrangement and Planting of Home and School Grounds. Credit, one hour. Lecture, F, 8. Laboratory, T Th, 2-4:30. Professor CURTIS.

METEOROLOGY

A. Meteorology and Climatology. Credit, one hour. Lectures M W, 9. Laboratory period by appointment. Mr. HAUSMAN.

NATURE-STUDY

A. General Nature-Study. Credit, two hours. Lectures, M W F, 10. Field and laboratory observations, T Th, 10-12:30. Assistant Professors COMSTOCK and EMBODY.

B. Natural History of the Farm. Credit, one hour. Lectures M, 8. Field work, sec. A, T Th, 2-5; sec. B, W F, 2-5. Assistant Professor EMBODY. Laboratory fee, \$1.

C. Seminary in Kindergarten Methods in Nature-Study. M. 2. Insectary. Assistant Professor COMSTOCK.

D. Advanced Nature-Study. Credit, one hour. Lecture W, 12. Laboratory and field periods by appointment. Only those who have had course A are eligible.

ORNITHOLOGY

B. Ornithology. Credit, three hours for lectures, and two laboratory and two field periods of two and one-half hours each. Lectures, T Th, 11. Laboratory fee, \$1.50. Assistant Professor ALLEN.

C. Economic Ornithology and Mammalogy. Credit, two hours. Should be preceded by course B; presupposes elementary knowledge of botany and entomology. Lectures M W, 11. Laboratory and field work, T Th, 2-5. Assistant Professor ALLEN.

PHYSICAL TRAINING

A. General Course in Physical Training. Credit, two hours. Daily except S at 8. Mr. HILL and others.

PLANT BREEDING

A. Principles and Practice of Plant Improvement. Credit, one hour. Lectures, T Th, 8. Laboratory and field practice, T, 2-4:30. Assistant Professor BARKER. Laboratory fee, 50 cents.

POMOLOGY

A. General Fruit Growing. Credit, three hours. Prerequisites Botany 1 or its equivalent. Lectures and recitations daily at 11. Laboratory M W, 2-4:30. Mr. HEINICKE.

B. Advanced Pomology. No credit toward graduation. Prerequisites: Botany 1 and Pomology A, or the equivalent. Lectures T Th S, 9. Mr. CARRICK.

POULTRY HUSBANDRY

A. The Care and Management of Poultry. Credit, four hours. Lectures daily, 9. Laboratory T Th F, 2-4:30. Assistant Professor BENJAMIN and Mr. BOTSFORD. Laboratory fee, \$3.

B. Farm Poultry. Credit, one hour. Lectures, M W, 10. Laboratory Th, 2-4:30. Assistant Professor BENJAMIN and Mr. BOTSFORD. Laboratory fee, \$1.

C. Feeding Practice. Credit, one hour. Must be accompanied by course A or B. Practice for six weeks, morning 7:30-8:15; noon 12:45-1:30; night 4:30-5:00. Mr. KENT, Mr. ANDREWS. Laboratory fee \$1.

D. Incubating Practice. Credit, one-half hour. Must be accompanied by course A or B. Practice for three weeks; morning 7:30-8:15; noon 12:45-1:30; night 4:30-5:00. Mr. KENT and Mr. BUCHAN. Laboratory fee \$1.

E. Brooding Practice. Credit, one-half hour. Must be accompanied by course A or B. Practice for three weeks; mornings 7:30-8:15; noon 12:45-1:30; night 4:30-5:00. Mr. KENT and Mr. BUCHAN. Laboratory fee, \$1.

RURAL ECONOMY

A. American Agricultural Problems. Credit, two hours. Prerequisite: Political Science 51 or its equivalent, or the special permission of the Department. Daily except S, 10. Professor LAUMAN.

B. The Cost of Living and Agriculture. Credit, two hours. Prerequisite Political Science 51, or its equivalent, or the special permission of the Department. Daily except S, 12. Professor LAUMAN.

RURAL EDUCATION

B. Agriculture in the High School. Credit, three hours. Lectures and discussions, daily 8. Laboratory M W, 2-4:30, repeated T Th, 2-4:30. Professor LUSK.

F. The School. Credit two hours or lectures only one hour. Lectures, M W F, 9; repeated M W F, 11. Laboratory M W, 2:00-4:30; repeated T Th, 2:00-4:30. Assistant Professor TUTTLE.

G. School and Home Gardens. Credit, one hour. Lectures and discussions. T Th, 11. Practice period, M, 2-4:30. Miss SIPE.

SOIL TECHNOLOGY

C. Soils. Three periods. Credit, one hour. Lectures, T Th, 10. Laboratory and demonstrations, T, 2-4:30. Assistant Professor BUCKMAN.

VEGETABLE GARDENING

A. Vegetable Gardening. Credit, two hours. Lectures, M F, 8, T W Th, 9. Laboratory, M F, 9-12. Mr. SCHNECK and others. Laboratory fee, \$2.00.

THE FORTY-NINTH ANNUAL COMMENCEMENT

Wednesday, June 27, 1917

FIRST DEGREES

Bachelors of Arts

Paul Louis Abel
Huldah Ellen Adams
Homer Bodman Albro
Evelyn Marguerite Alspach
William Alexander Andrews
Henrik Antell
Joseph Crandall Ashmead
Tracy Baldwin Augur
Howard Parkhill Babcock
Alton Fletcher Baker
Lillian Victoria Barber
Hobert Winship Barnes
Florence O'Neill Barnwell
Juanita Bates
James Herman Becker
Albert Beehler
Robert Sigmund Beifeld
Archibald Douglas Bell
Caroline Victoria Bell
Katharine Raynolds Bell
Everett Farrington Benjamin
Hyman Berkowitz
Amanda Katherine Berls
William Jackson Blackman
Ralph Harris Blanchard
Frank David Boynton, jr.
Richard Brandt, jr.
Lea Altenburg Bramhall Brown
Hazel Blanche Bufford
Robert Upton Carr
Helen Carter
Louis Benton Cartwright
Edna Egolf Cassel
Paul James Cavanaugh
Ruth Virginia Chappelle
William Cornwall Clark
Israel Cohen
Raymond Solomon Crispell
Frances Isabel Cuffe
Leon Francis Curtiss
Albert Neil Dangerfield
Helen Louise Davis
Herbert Haywood Davis
Harold Trumpler Deedes
Viola Buchart Dengler
Barbara Vital De Porte
Prescott Reuben Dickinson
John Donald Dowd
Ernestine May Dressler
Thomas Henry Dugan, jr.
Rufus Lee Durfee
Eugene Blakely Durr
William Henry Eastman
Lewis Richard Koller
Anna Elizabeth Kühner
Mary Valentine Larkin
Edgar Gustave deLaski
Amy Leone Luce
Herman Leonard Lutz
Edward Dennis McCarthy
Elliott Morse McGinnies
Harry Elias Mack
Samuel Stuart Mackeown

Paul Witherspoon Eckley
Faye Lenore Edwards
Louis Robert Joseph Edwards
Hildegard Eulenstein
John Robert Eyer
Irma Helen Faith
Elizabeth Berger Fisher
Philip Wright Fitzpatrick
Harold Arthur Flannery
Frank Kent Foss
Percy Austin Fraleigh
Allen Sidney French
Helen Fretz
Eli Maurice Friedman
Florence Ethel Galanter
Alexander Hamilton Garnjost
Lester Halbert Germer
Harry Naylor Glick
Marie Josephine Grenier
Mary Ryder Guernsey
Daniel Nast Gutmann
Helen Margaret Hall
Henry North Hallett
William Gabriel Hardenburgh
Watson Giles Harding
John Henry Hathaway
John Huyler Haupt
Charlotte Irene Hayner
George Joseph Hecht
Joseph Adolph Heller
Georgiana Elizabeth Hildebrand
Maury Hill
Harrison Hoblitzelle
Harry Herbert Hoffnagle
Henry French Hollis, jr.
Herbert Vinton Hotchkiss, B.S.C.E.
Edward William Houck
Sidney Preswick Howell
Gertrude Louise Huth
Mark Hoyt Ingraham
Winifred Irvine
Arthur Paul Jacot
Edith Faulkner Jenkins
Raymond Jenkins
James Wood Johnson
Allan Lewis Kaufmann
Miriam May Kelley
Grace Elizabeth Kelly
Genevieve Marie Kelsey
Mary Anne Kennedy
Thomas Phillips Knapp
George Lewis Knapp
Regina Kobre
Joel Elwin Sammet
Rudolph William Sandburg
Miles Blinn Sanford
Martin Frederick Schlecht
Hermann Schmid
Jacob Gould Schurman, jr.
William Elmer Seely
Anne May Seligman
William John Seligmann
Dorothy Mary Shaw

Kenneth Duncan MacMillan
 Dorothy Carol Maier
 Donald Lee Mallory
 Honora Agnes Martin
 Wheeler Milmoie
 Mazie Caroline Montgomery
 Irwin Likely Moore
 Amy Spencer Moran
 Daniel Stentz Morgan
 William Lionel Morgan
 Paul Swain Moulton
 Gladys Marie Müller
 Ira Henry Myers
 James Chalmers O'Brien
 Geoffrey Maurice O'Connell
 Charles Dickerson Orme
 Charles Victor Parsell, jr.
 Mary Elizabeth Pike
 Hermann Gauntlett Place
 E. Sherwood Post
 James Maxwell Pringle
 Charles Frederick Probes
 Charles Wesley Purdy
 Harold Clifton Reed
 Hugo Valentine Rettig
 George Bertram Robbins
 Winifred Romer
 Charles Joseph Rowland
 Elizabeth Rowlee
 Phyllis Rudd
 William Muir Russel
 Edwin Philip Russell

Joseph Talbot Sheridan
 Jeannette Short
 William Durrell Siebern
 Ruth Virginia Jane Simpson
 Leland William Singer
 John Bernard Slimm
 David Anderson Stafford
 Donald Earl Stonebraker
 Dorothy Conger Street
 Harold Charles Strotz
 William Ferdinand Stickle
 Brandreth Symonds, jr.
 Yueh Tang
 Gertrude Thilly
 Helen Tiebout
 David Louis Ullman
 Virginia Van Brunt
 John Potter Wagman
 Bessie May Wallace
 Alfred Whitaker Ward
 Robert Forbes Wells
 James Russell Westheimer
 Dorothy Allison White
 J. Arthur Whitecotton
 John Randall Whitney
 Beider Wellington Wilde, jr.
 Bertram Francis Willcox
 Geraldine Margaret Willis
 Margaret Cantine Wolcott
 Emil Valentine Woldar
 Raymond Joseph Wolf
 Winifred Woodman

Bachelors of Chemistry

Robert Duane Abbott
 Otto August Badenhause
 Irving Tracy Beach
 Daniel Stanton Belden
 Harold Stanley Broadbent
 Wellington Frederick Butler
 Amerigo Francesco Caprio
 Burt Haring Carroll
 Albert Lewis Culbertson
 Hollis Hanford Dann
 Thomas Washington Delahanty
 Ernest Daniel Dobrosky
 Robert James Grant
 Howard William Hock
 Harold Vincent Huber
 Joseph Munroe Jaffin
 Rexford Wilber Jewett

Herbert Richard Johnston
 Hugh Ross Johnstone
 Morris Howard Katz
 John Daniel Kerr
 Paul Knapp
 Joseph Anthony Kohm
 John Charles Kratoville
 Frank Mortche Levy
 Morris Herman Paskow
 Hal Emerson Schenck, B.S.
 Paul Herman Segnitz
 Arthur Leo Stern
 Richard Thomas Summers
 Claude Frederick Tears
 Louis Julius Waldbauer
 Gordon Ellwood Wightman
 Samuel Wilson

Bachelors of Law

Charles Abramson
 Leonard Gutekunst Aierstok
 Allen Albert Atwood
 Francis Joseph Cleary
 James Joseph Conroy, jr.
 William John Darch
 Kenneth Dayton
 Milton DeBaun
 Harry Aaron Dicker, A.B.
 Marvin Rood Dye
 George Thomas Franklin
 William Randolph Gargiulo
 George Paul Heffernan
 Warren Hollenback
 Harper Allen Holt
 George Blaine Howell

Frank Bostwick Ingersoll
 Henry Klauber
 Herman Bernard Lermer
 John Henry Machan
 William Howard Maguire, A.B.
 Apollon John Nicholas
 Archibald Oboler
 John Emmett O'Brien, A.B.
 Walter Herdman Pickett
 Eugene Barrett Reed
 Clyde Bennett Santee
 Emily Christine Schultze
 Leander Ivon Shelley
 George Lester Shultz
 Matthew William Weimar
 Alfred Joseph Wentz

Clayton Chester Wolford

Bachelors of Science

Elizabeth May Abbuhl
 Helen Lurinda Adams
 Mary Susan Albertson
 Byron Augustus Allen

Helen Florentine Bell, B.A.
 William Dexter Bennett
 Veeder Bergen
 Franklin Furman Betts

Morris Antell
 Aquiles Armas
 Julia Aronson
 Joseph Aronstam
 Virgil John Ashbaugh
 Henry Gustave Bahret
 Harold Baker
 Mabel Gingell Baldwin
 Walter Christian Bartsch
 Meyer David Bashein
 Esther Mary Batten
 Russell Sheppard Beck
 Frank Jones Burke
 Robert Vincent Call
 Sarah Letson Campbell
 Manuel Jesus Castillo
 Ernest Clinton Chadbourne
 Paul Russell Chappell
 Chih Lan Chien
 Madeline Kingsley Church
 Helen Scureman Clark
 Hollis Harrison Clark
 James Joseph Clynes
 Charles Francis Cochrane
 Paul Sinclair Conine
 Elbert Ernest Conklin, jr.
 Henry Waddell Conner
 William Carmichael Cook
 Charles Stuart Cooper
 Walter Griffin Cowan
 William Doolittle Crim
 John Charles Crissey
 Harold Olin Crowell
 Frank Patrick Cullinan
 Paul Colman Cutler
 Donald Danenhower
 Edna Louesa Darling
 Arthur David Davies
 Ruth Eaton Davis
 Emmons Davis Day
 June Charlotte Deming
 Henry Dietrich
 Douglas Schulhaus Dilts
 Irving Haier Doetsch
 Philip George Drabelle
 *William Albert Duckham
 Cleon Leslie Dunham, jr.
 DeWitt Upham Dunham
 William Bentley Eastman
 Orson Northrop Eaton
 Lawrence Dunbar Edson
 James Leland Edwards
 Curt Eichler
 Hugh John Ennis
 Fred Robert Evans
 Harold James Evans
 John Samuel Everett
 Sze Voo Fang
 Nicholas Garry Farber
 Marshall Evarts Farnham
 Isador Finkelstein
 George Everett Flanigan
 Helen Ripley Lord Flint
 Howard Boyer Flock
 Raymond Fogelman
 Albert Dow Fonda
 Robert Stewart Menzies Fraser
 Joseph Freund
 Edward Frey
 Richard Felix Fricke
 Wayland Patterson Frost
 William Maier, jr.
 Adolph Archibald Manchester
 Simon David Mandel
 Robert Benjamin Markham
 Albert Kenneth Mayer
 Chester Hume Menke

Joseph Bienenstock
 John William Blackman, jr.
 Frederick Horace Blake
 Alice May Blinn
 Boyd Abram Blodgett
 Gertrude Esther Bower
 Loutrel Winslow Briggs
 Mead Greacen Briggs
 Anna Bristol
 Alfred Hiram Brooks
 Henry Somerset Brower
 Robert Abraham Browning
 Louis Fuchs
 William Howard Funston
 John Caldwell Corliss Gardiner
 Stanley Cortland Garman
 Copeland Ensign Gates
 A. Wright Gibson
 Roy Lewis Gillett
 Samuel Ginsburg
 Edmund Humphrey Gleason
 Jacob Gluck
 Samuel Goldberg
 Jean Paul Griffith
 George Haines
 Carleton Lee Hallock
 Henry Finch Hand
 Herman Andrew Hanemann
 Henry Ernest Haslett
 Frank Hauke
 *Clifford Ottley Henry
 Gladys Marion Hess
 Lyster Meadows Hetherington
 Lloyd Daniel Hildebrand
 Dunbar Maury Hinrichs
 Jacob Hirschhorn
 Ferdinand Hoefner
 Edith Esther Hogg
 John Edward Houck
 Leslie Seymour Hough
 Luke Willis Hovey
 John Homet Howard
 Lynn Howard
 Harold Jay Humphrey
 Anna Frances Jansen
 Harold Osborne Johnson
 Mary Haldeman Johnson
 Frederick Randolph Jones
 David Sidney Katzenberg
 *Donald Kenyon
 George Stebbins Kephart
 Edwin Ingersoll Kilbourne
 Carrie Johanna King
 Helen Olivia Kirkendall
 Samuel Harry Koslin
 Albert Abraham Kraus
 Olin Clifford Krum
 Louis Andre Lamoreux
 Melva Myrtle Lattimore
 Nora Pauline Lawson
 Claude Willard Leister
 Henry Elcox Leonard
 Clarke Bernard Loudenslager
 John Donald Loughlin
 Howard Jerome Ludington
 Charles Henry Lynch
 Joseph Frank McCullough
 Mannon Greer McPherson
 Mabelle Vassar MacWhorter
 Harold Macy
 James Barry Maguire
 Stanley Howe Sisson
 Louis Raymond Skinner
 Carl Dickey Smith
 Editha Cora Smith
 Edwin Smith
 Frank Snow

*Degrees conferred as of May 1, 1917.

Samuel Meyerson
 Harold Strycker Mills
 Albert Knell Mitchell
 Daniel Stentz Morgan.
 May Louise Morris
 Anna Horton Morrow
 Helen Elizabeth Murphy
 Malcolm Gibson Murray
 Edgar Myers
 Fred Paul Nabenhauer
 Aaron Morris Nadler
 Marguerite Niedeck
 May Evelyn Niedeck
 Laurence Joseph Norton
 James Thomas Owens
 Ralph Coy Parker
 Seth Gordon Parsons
 Ralph Fulford Perkins
 Charles Moore Phillips, jr.
 Gladys Eleanor Poole
 Benjamin Potar
 William Jourdan Rapp
 Charles Harmon Rector
 Harold Regnault
 Charles Joseph Reichert
 Fred Arthur Reynolds
 Donald Spencer Rogers
 Edward Dana Rogers
 Frank George Rogers
 Harold Joseph Rood
 Joseph Rosman
 Edwin Delespine Ross
 Joseph Rubinger
 Auleen Bernice Russell
 Orrin Storey Russell
 Morris Scherago
 Edgar Louis Schwartz
 Jay Douglas Scofield
 Lloyd Badger Seaver
 Marjorie Louisa Sewell
 Edward Nelson Shelp
 Florence Kathryn Sherwood
 Simon Shoulkin

Alan Sparks
 Ruth Starr
 Lloyd Wesley Steelman
 Howard Eugene Stern
 Mary Dye Stevens
 Roger Eaton Stewart
 Hazel Irene Stokoe
 Herbert Milton Stults
 Edna Marguerite Sutton
 William Therkelson
 Charles Anthony Thompson
 Donald Church Thompson
 Magna Charta Tillotson
 Howard Ferguson Tilson
 **Edward Ilsley Tinkham
 Helene Marie Tompkins
 Alfred Sears Townsend
 Eudora Farnham Tuttle
 William Stephen Vanderbilt, jr.
 John Alpheus Vanderslice
 Maude VanNatta
 Alice Cornelia Van Scoy
 Isaac Newton Voorhees
 Lewis Edgar Walker
 Fred Rosman Walkley
 Carl Francis Walter
 Pearl Lorena Warn
 Elbridge Stephen Warner
 Fera Ellen Webber
 William Jacob Wedlake
 Lester Isaac Weil
 John Walter Wetz, jr.
 Ralph Adna Wheeler
 John Wigsten
 Edward James Wilford
 Charles Wille
 Robert Bellows Willson
 Paul Albert Winchell
 Linus Vere Windnagle
 Paul Birdseye Woodford
 Laurance Greenwood Wygant
 Austin Wellhouse Young
 Harold Newell Young

Doctors of Veterinary Medicine

†Ross Harold Arnett
 *George Philip Bard
 †Charles Milton Carpenter
 †John Woodward Claris
 *Raymond LeRoy Conklin
 †Frederic VanDyck Dederick
 †George Webster Derrick
 *Charles Edward Fanslau
 †Alfred Gustave Gierke
 †Herbert Lester Gilman
 †Charles Oliver Grace
 *Joseph Napoleon Graves
 †Philip Charles Herzer
 †Earle Budd Hopper
 †Thomas Harold Howe

†Michael John Kolar
 †Mac Henry Mabey
 *Daniel Henry Mallan
 †Erwin Veranus Moore
 †Charles Van Wie Morris
 †Clarence William Mould
 †Leo Vincent Murrian
 †Nathan Menzo Neate
 †Floyd Chauncey Sager
 †Alexander Pollock Sturrock
 †Talmage Thomas Tucker, B.S., A.M.
 *Ray Benson Potter Waller
 †Walter Denslow Way
 *Louis Goldman Weisman
 *Frank Holmes Woodruff

Bachelors of Architecture

Edward Louis Bisdee, jr.
 David Martin Bowes
 Roy Walling Cheesman
 Milton Lee Crandell
 Albert Augustus Cushing
 Michael Saul Diamond
 John Chester Eakle
 Lester Ernst
 Wilfred Webster Faulks
 Jacob Fitelson
 Armin Charenton Frank
 Kenjiro Fujikura
 Revilo Franklyn Fuller
 Freda Jane Gilfillan

James de Graffenriede Graves
 Raymond Francis Hagerty
 Paul Hyde Harbach
 William Wattles Horner
 Donald Fogel Innes
 Morgan Becker Klock
 Leslie Verne Lacy
 Henry Birdsall Marsh
 Thomas Winfrey Miller
 Lucius Moore
 John Herndon Thomson, B.S.
 Howard Alfred Topp
 Frederick Clair Van Dusen
 Rosamond Wolcott

Chester Charles Woodburn

*Degree conferred as of May 1, 1917. †Degree conferred as of June 22, 1917.

**Absent on Ambulance Service. Degree conferred as of June 21, 1916, by special action of the Faculty.

Civil Engineers

William Addams, jr.
 James Aylor Anderson, B.S.
 Lewis Fishburn Balser
 George Titus Barton
 Robert Edward Bassler
 Henry Huntington Bätjer
 David Beale
 Charles Seidles Beck
 Charles Beverley Benson
 Walter Van Ness Benson
 J. Paul Blundon
 Chauncey Millar Briggs
 Joseph Paul Bright
 George Frederick Buckmann
 Charles Horatio Bunn, jr.
 Charles Herbert Capen, jr.
 Clarence Cleve Carpenter, C.E.
 Jacob Fuchs
 George Gordon
 John Jacob Gromfine
 Max Gross
 Richard Thomas Guilbert
 Theodore Warren Hacker
 William Henry Robinson Haggart
 John Francis Hardecker
 Alrich Scheper Harrison
 Harry Howard Hemmings
 Charles Alan Hillman
 Charles Allan Hoffman
 Robert Dorrance Ingalls
 Lawrence Douglas Kingsland, 2d.
 John Samuel Krauss
 Ernst William Kurz
 Warren Willma Lehrbach
 Samuel John Leonard
 Charles David Livant
 John Robert McCarthy
 Henri Charbounier McGowan, B.S.E.E.
 Donald Alexander Mackenzie
 Edwin Russell McMillin
 Robert Gillespie Mead, C.E.
 Arthur William Mellen, jr.
 George Miller
 Harold George Miller
 Roy John Zander

Edward Austin Chandler, jr.
 Lester Percy Clark
 Edward Clawans
 John Howard Courtney
 Edward Cummings
 Bernard Clark Dailey
 Donald Gordon Davis
 John DeWitt
 William Reese Dillard
 Nathan Dinnerstein
 James Francis Driscoll
 Robert Fielding Edwards
 Charles Eppleur, jr.
 Charles Harold Fahy
 Paul Fein
 Francisco Jose Ferrer
 Ellsworth Lincoln Filby
 Thomas Aloysius Monaghan
 Frederick Berry Mullen
 Charles Edward O'Rourke
 Vincent Joseph Pacello
 Gilbert Everhard Parker
 Richard Parmenter
 Cushing Phillips
 John Allison Piersol
 Thomas Harold Prentice
 John Owings Preston
 Oscar Frederick Priester
 John Joseph Quinn, jr.
 Leroy Preston Raynor
 John Percy Redwood
 Robert Camp Russell
 Walter LeRoy Saunders
 William Boulton Scheckel
 Francis Paul Scileppi
 Shao-Chang Shing
 Philip Ephraim Soman
 James Henderson Spafford
 Myer Stein
 Samuel Strumer
 Louis Swerdlove
 George Russell Thompson
 Edwin Haight Tillotson
 John Clarence Tunnicliff
 James King Van Campen, jr.

Mechanical Engineers

*Ernest Reynolds Acker
 John Glover Albright
 Manuel Samayoa Ayau, jr.
 Carl William Badenhausen
 Robert Hubbard Bahney
 Walter Baker
 *Charles Goddard Baldwin, jr.
 Alfred Fernand Bancel
 Davies Kirkland Banks, B.S.
 Ralph Spangler Barber
 Samuel Max Barr
 *Louis William Bartol
 William Cornish Bellis
 Harold Neilan Bick
 William Thomas Binks, jr.
 William Carter Bliss
 George Hamlin Bockius
 Henry Parsons Boggis
 Charles McKaraher Bomeisler
 Surendra Nath Bose, L.E.E.
 Irwin Brewer
 Michael Carnahan Bright
 James Embury Brinckerhoff
 Samuel Thomas Brown
 *Wiser Brown
 Chandler Burpee
 Ivan Buys

Henry Wallace Caldwell
 James Clayton Caldwell
 John Callan, jr., B.E.
 David Harry Chandler, jr.
 Stuart Lyle Chapin
 Robert Hett Chapman
 Emanuel M. Cohen
 George Kadel Coleman
 John Lyon Collyer
 Ralph Osgood Compton
 Everett Brownell Cooke
 Edward Stephen Corcoran
 Louis Fisk Corliss
 William Adams Coulter
 Ronald Chester Coursen
 Addison Bardshar Crandall
 Charles David Damsky
 William Gurley Davis
 Wilson Fields DeGroat
 Joseph John Derham, jr.
 Frederick Harris Dutcher
 Ralph Earnshaw
 Lionel Albert Ebaugh
 Winfield Eckley, B.S.
 Harris Crawford Emich
 George Lemuel Erwin, jr.
 Louis Etshokin, A.B.

*Degree conferred as of May 2, 1917.

William Calder, jr.
 Joseph Andrew Garbarino
 John George Gates
 William Edward Goodman
 Rudolf Ernst Grueter
 Albert Montgomery Hagen
 Roscoe Lee Hambleton
 Otto Henry Hamm
 Fremont Mortimer Hammond, A.B.
 John Joseph Hanighen, jr.
 Alvan Stem Hatch
 John Haydock, 3d.
 Robert William Hendee
 Edward Clark Homer
 Harvey Francis Houck
 Chester Carroll Hough
 Claude Monroe Houston
 David Joseph Howard
 Louis Charles Huck
 Maurice Burt Huntington
 Ernest Plack Jaggard
 Walter Rodney James, B.S.
 Joseph Barnett Kalbfus
 William Charles Kammerer, jr.
 Robert Edwin Keefe
 Warren Griffin King
 William Robert Landmesser
 Carl Francis Lautz
 Theodore VanVleck Lautz
 Stanley Overholt Law
 Kilburn Leighton
 George Russell Leonard
 John Hinton Lopez
 Robert Francis Luce
 William Stanley McCormick
 Einsel Leroy McCurtain
 Erwin Lionel Malone
 Otis Reed Marston, B.S.
 James William Herman Martin
 James Evart Matthews
 Harold Gustav Meissner
 John Finney Merrick
 George Charles Meyer
 Robert Oliver Meyer
 Harman Martin Molony
 John Samuel Morris
 Rexford Lansing Morris
 Dennis Henry O'Brien
 Carl Francis Ogren
 James Carey Othus
 Frederick Gilbert Palen
 Richard Averill Parke
 *Harlen Pefley
 Mortimer Smith Parkhill

Louis Julian Galbreath
 Victor Power Pennington, B.S.
 Elvin Lyle Pierson
 Alexander Vivian Polson, B.A.
 Henry Whittier Porter
 Raymond William Ramage
 Charles Henry Ramsey
 Frank Harrison Randolph
 Everett Charles Read
 Paul LeGrand Raymond
 Ralph Keeler Reynolds
 William Wallace Robertson, jr.
 John Marling Ropes
 Walter Earl Roth
 Juan José Ruiz
 Arthur Salinger, jr.
 Lyle Thomas Schartel
 Yale Roots Schively
 Clarence Woodbridge Schmidt
 Herbert Collins Schneider
 Harolde Napton Searles
 Edwin William Seibert
 Charles Dorman Shepard
 Clare Orris Shull
 Benjamin Adams Smith
 Clifford Durand Smith
 Elwyn Lawrence Smith
 Howard Cook Smith
 Charles Herman Spreckels, jr.
 Edward Albert Sprong, jr.
 Gustave David Stahl
 Carl Stanley
 Robert Oscar Sternberger
 Ralph Berry Stewart, B.S.
 Albert Theodore Strauch, jr.
 Harry Merrill Strong
 Frank Gifford Tallman, jr.
 Ralph Corbin Taylor
 Arthur Pearson Timmerman
 Walter Edmund Titchener
 Thomas Frederick Illingworth Tomlines
 Russell Thomas Tree
 Kwong Chi Tsang
 Jean Carl Vollrath
 Edwin Hoffman Watkins
 Roland McKinley Watt
 William Johnston Wheeler
 DeGray White
 Charles Francis Williams
 Paul Alfred Williams
 Stewart Collins Wilson
 Arthur Coy Woodward, A.B.
 Abner Miles Wright
 Frederick William Wright

DEGREES CONFERRED AS OF JUNE 27, 1917

Bachelor of Arts

Charles Wesley Purdy

Bachelors of Science

Ivon Harold Budd
 Charles Styles Dana
 Russell F. Dixon
 Henry Sabine Fisher
 George Stewart King

William Christopher Kreuzer
 Maurice Meyer Minton, jr.
 John Ewing O'Hearn
 Mary Isabelle Potter
 Frank Wesley Quail

Claude Edward Shill

*Degree conferred as of May 1, 1917.

ADVANCED DEGREES

Masters of Arts

- Evelyn Marguerite Alspach: A Further Contribution on the Psychological Response to Unknown Proper Names.
- Charles Frederick Barnason, A.B.: Friederich David Graeter's Norse Studies.
- Amanda Katherine Berls: The Diplomatic Relations of France with the United States and the Confederacy during the Civil War Period.
- Harold Laverne Camp, B.A.: Electrical Resistivity of Metals as Affected by Variation in Temperature.
- Harry Caplan, A.B.: The De Imaginatione of Gian Francesco Pico della Mirandola Rendered into English with Introduction and Notes.
- Ruth Ellen Chipman, A.B.: The Mercuric Sulphocyanates as Reagents in Microscopic Qualitative Analysis.
- Dorothy Kendall Cleveland, A.B.: The Trade and Trade Routes of Northern New York, 1786-1860.
- Margaret Sheerin Cooney, A.B.: A Translation of Three Essays on Imagination by Helvetius, Voltaire and Marmontel, with Introduction and Notes.
- Clara May Harlan, A.B.: The Anti-Hellenistic Struggle at Rome in the Second Century B. C.
- Ernest Herman Hespelt, A.B.: Friedrich Gerstäcker: A Study of his Life and Works, with Special Reference to his Sojourn in America, and the Sources of his Literary Works.
- Chiensze Yang Kao, B.A.: An Examination and Criticism of John Stuart Mill's Utilitarianism.
- Ernest Fitchard Ling, B.S.: The Relation Between Photo-electric Current and Intensity of Illumination.
- Jane Louise Matteson, A.B.: Principles of Map Making.
- J. Howard Muncie, A.B.: The Effect of Seed Treatment upon the Susceptibility to Disease in Bean Plants.
- George Martin Pearsall, M.E.: An Investigation of the Appearance of Frosted and Clear Lamps under Conditions of Direct Vision.
- Ruth Rand, A.B.: On the Relations of the Head Chorda to the Hypophyseal Anlage, the Pharyngeal Entoderm, and the Pharyngeal Bursae in the Pig Embryo.
- George Merritt Robison, A.B.: On Hadamard's Determinant.
- Herbert Ruckes, B.S.: On the Metamorphosis of the Genital System in the Saturniidae.
- John Edward Sutton, jr., A.B.: The Fascia of the Human Orbit.
- Livingston Pierson Teas, B.S.: The Relation of Sphalerite to Other Sulphides in Ores.
- Edward Hammond Vance, B.S.: Generalizations of the Steiner-Seydewitz Method of Generating Plane Algebraic Unicursal Curves.
- Herman Warshaw, A.B.: The Effect of the Federal Reserve on Bank Credit.
- Meyer Wigdor, B.S.: A Contribution to our Knowledge Concerning Fish Parasites with Special Reference to the Cayuga Fauna.

Master of Science

- Francis Grant von Magius Schleicher, B.S.: The Staining and Finishing of Woods.

Masters of Science in Agriculture

- Carey Walton Carrick, A.B.: Studies in Mortality of Laying Hens.
- Saleem Raji Farah, B.S.: Nitrogen Supply Through Legumes.
- Charles Orville Heath, B.S.: A Comparison of Various Rations for the Fattening of Poultry.
- Albert Scott Kenerson, B.S.: The Effect of Hybridization upon the Size, Shape and Color of the Roots of the Cultivated Radish, *Raphanus Sativus*.
- John Morton McClung, B.A.: A Study of the Relative Efficiency of Legume Hay as a Supplement to Grain for Brood Sows during the Winter.
- Kurt von Schenk, A.B.: The Significance of von Thünen's Law in Rural Economy.
- Themistocles George Yaxis, B.S.: Absorption of Flavors in Butter.

Masters in Forestry

- Frederic Hartwell Millen, B.S.: Artificial Reforestation on the Luther Preserve, Saratoga County, New York.
- Ernest Cleveland Rogers, B.S.: Delayed Germination Among the Five-Needled Pines with Particular Reference to *Pinus Monticola*, Dougl.
- Herbert Milton Stults: A Critical Discussion of State Forestry Laws.
- Gilbert Morris Taylor, B.S.: Some Ecological Factors in their Relation to the Distribution of Certain Broadleaf Trees of North America.

Master in Landscape Design

- Paul Berwig Schumm, B.S.: The Park Plans for Six Mile Creek Ravine and the Improvement of Ithaca.

Masters of Architecture

- Robert Henry McNaughton, B.Arch.: A Court Room for the United States Supreme Court.
- Albert Eugene Price, B.Arch.: A Court Room for the United States Supreme Court.

Masters of Civil Engineering

- Kung Lee, B.S.: A Study of the Analysis of Weights of Details in Bridges.
 Ying Lo, C.E.: A Design of a Double Track Half Through Plate Girder Swing Bridge.
 Joseph Wilbur McArthur, B.S., C.E.: A Critical Study of Wooden Bridges.
 Thomson Mao, A.T.E.C.: The Design of a Two-Hinged Spandrel-Braced Arch Bridge with an Investigation of its Secondary Stresses.

Masters of Mechanical Engineering

- Frank Thomson Leighton, M.S.: Limitations in Direct Current Machinery.
 Charles Ernest Oakes, B.S.: The Design and Manufacture of Porcelain Insulators.
 Justin Federal Wait, M.E.: The Mechanical Problems of Ultrafiltration.
 Birton Neill Wilson, M.E., B.Sc. M.E.: The Present Status of the Oil Engine. Test of a 45 B. H. P. Diesel Engine.

Doctors of Philosophy

- Harold Selden Bennett, A.B.: The Interaction of Anhydrous Hydronitric and Concentrated Sulphuric Acid.
 Josef Karl Bock, Ing. Chem.: The Determination and Occurrence of Amino-Acids in the Blood.
 Ralph A. Bown, M.E., M.M.E.: Internal Relations in Audion Type Radio Receivers.
 Walter H. Burkholder, A.B.: The Anthracnose Disease of the Raspberry and Related Plants.
 Chester Claremont Camp, B.A., A.M.: An Extension of the Sturm-Liouville Expansion.
 Royal Norton Chapman, B.A., M.A.: The Basal Connections of the Tracheae of the Wings of Insects.
 Phoo-Hwa Chen, B.C.E., M.C.E.: An Investigation of Comparative Deflections of Steel Arch Ribs with Three, Two, and No Hinges.
 Howard Irving Cole, B.Chem.: The Use of Textile Fibers in Microscopic Chemical Analysis.
 Howard Bowman Ellenberger, B.S.A., M.S. in Agr.: A Study of the Bacterial Growth in Ice Cream.
 Carl John Engelder, A.B., B.Chem.: Studies in Contact Catalysis.
 Royal Joslin Haskell, B.S.: The Fusarium Wilt of the Potato in the Hudson River Valley, New York.
 Temple Rice Hollcroft, B.S., A.B., A.M.: A Classification of General (2, 3) Point Correspondences Between Two Planes.
 Olney Brown Kent, B.S., M.S. in Agr.: Constitutional Vigor in Gallus Domesticus.
 Hugh McMillan Kingery, B.A., M.A.: Oogenesis in the White Mouse.
 Carrie May Lewis, A.B.: The Antislavery Argument as Developed in the Literature from 1830-1840.
 Oliver Cary Lockhart, A.B.: Inter-Bank Borrowing in the National System.
 Laurence Howland MacDaniels, A.B.: The Histology of the Phloem in Certain Woody Angiosperms.
 Donnis Martin, A.B., A.M.: The Cynegetica of Nemesianus.
 Gladys Martin, A.B., A.M.: Laus Pisonis.
 Philip Alexander Munz, A.B., A.M.: A Venational Study of the Suborder Zygoptera (Odonata), with Keys for the Identification of Genera.
 Ephraim Laurence Palmer, A.B., A.M.: A Study of American Weeds with Keys to their Seeds and Fruits.
 Gilbert Joseph Rich, A.B., A.M.: A Study of Tonal Attributes.
 Roger Cletus Smith, A.B., M.A.: The Biology of the Chrysopidae.
 Alfred Henry Sweet, A.B., A.M.: The Relation of the English Benedictine Monasteries to the Papacy and the Episcopate in the Thirteenth Century.
 Charles Lee Swisher, A.B., A.M.: The Specific Resistance and Thermo-electric Power of Metallic Calcium.
 Sit Iu Sz-to, A.B.: The Relation of the Police Power to City Planning: A Study of Public Law.
 Myron Webster Watkins, A.B.: The Work of J. B. Say.
 Paul Thorne Weeks, B.A.: A Determination of the Efficiency of Production of X-Rays.
 Earl Archibald White, B.S., M.S.: A Study of the Plow-Bottom and its Action on the Furrow-Slice.
 William Colcord Woods, B.A.: The Biology of the Alder Flea-Beetle, Altica Bimarginata Say, and the Morphology of its Larva.

CONFERRED SEPTEMBER 26, 1917

FIRST DEGREES

Bachelors of Arts

- | | |
|-----------------------|-------------------------------|
| Jerome Leland Blau | Victor Kinnaman Martin |
| Edward John Burns | Frances Eugenia Hiles Rehfeld |
| Henry Wolfe Greenberg | Leslie Charles Schwartz |
| Yun-Huang Ho | Cora May Shaffer |
| James Arthur Kennedy | Frederic W. Strong |
| | Donald Bain Vail |

Bachelors of Chemistry

- | | |
|-------------------------------|-------------------------|
| Bernard Henry Gutwillig, A.B. | Thomas Harold Ludlow |
| | Paul Frederick Stricker |

Bachelors of Science

Henry Emil Allanson
Carl Richard Bradley
Alice May Brewster
Stanley Ross Burlage
Reuben Michael Cohen
Cyrus Gibson Davisson
Agnes Cecilia Hogan
Walter August Huelsen

Arthur Wells Jones
Robert Nuttall Jones
Henry William Koch
Cheng-Lin Liu
Araminta MacDonald
Arthur Howard Martin
Joseph Pullman Porter
Joseph Phelan Routh
Frederick Augustus Stenbuck

Doctor of Veterinary Medicine

Hugh David Laird

Civil Engineers

David Livingstone Cownie
Francisco Fernandez-Grau, jr., B.L.
Benjamin Friedenberg
Joseph Howard Gray

Abelardo Reyes Icasiano, A.B.
Gabriel Emanuel Lund
Sidney Wood Mosher
Fred White Roberts
Harold Hung-En Wong

Bachelors of Architecture

Alexander Glencairn Acheson

Guy Brown Wiser

Mechanical Engineers

George Frederick Elliott, B.S.
Walter David Johnston, A.B.

Nelson Garlock Golden
Thomas Ralph Jones

CONFERRED FEBRUARY 14, 1917

FIRST DEGREES

Bachelors of Arts

Edward Ewen Anderson
Paul William Carter
Julian Maus Fauvre
Gladys Marie Chadsey
Alice Virginia Flather
Vi Arvin Graham
John Alden Knight, jr.
Ralph John Myers
Clarence Harold Page

Ruth Amy Rider
Helen Lorene Robbins
Karl Patterson Schmidt
Robert Louis Strebel
Louisa Garbutt Waite
William Robert Waldron
Charles Paul Ward
Thomas Cram Whitehead
Ying Ching Yang

Bachelors of Chemistry

Frederick Lincoln Browne
Thomas Turner Cooke

Lester Archibald Helfrich
Benjamin Rosenbaum.

Bachelors of Laws

Mario Lazo

James Roger Shaw

Bachelors of Science

John Karl Baildon
Frank Clifford Bliss
Harry Spencer Bole
Clifton Tse Chang
Willis Becker Combs
Grace Sabin Ensign
Kenneth Clark Fox
Gustave Augustus Gerber
Albert Parson Gresser
Charles Orville Heath
William Albert Hoffman
David M. Jenkins
Willis Edmonston Knapp
Harry Lebowsky
George Edwin LeWorthy
Edward Harvey Litchfield
Alvin Edward Long

Arthur Westyn Plough
Francis Wells Reeve
Frank Julius Rimoldi
Bertram James Rogers
George Julius Rosen
Herbert Ruckes
Frank Saddler, jr.
Pincus Schereschewsky
Abraham Shultz
Fabian McKeon Smith
Theodore Horton Townsend
Allan Foster VanWinkle
Max Weiss
Meyer Wigdor
Leon Richmond Witt
DeGraaf Woodman
Edward George Zent, jr.
Philip Zvirin

THE REGISTER

Doctors of Veterinary Medicine

Lloyd Edward Moore

John Henry Stack

Bachelors of Architecture

Lester Silvester Manning

Henry Francis Stanton

Civil Engineers

Cheng Sze Chen
 Jacob Fruchtbaum
 Samuel Everett Hunkin
 Richard Lewis Hyde

Thomas Francis Keating, jr.
 Jose Buarque Macedo
 Kenneth Phelps Moore
 Goichi Nakamoto

Thomas Reese Spence

Mechanical Engineers

Carl Hosmer Bowen

William Stuart Green
 Quan Ting

CONFERRED SEPTEMBER 26, 1917

ADVANCED DEGREES

Doctors of Philosophy

William Augustus Adamson, A.B.: 2:4-Dihydroxybenzoyltetrachloro-o-benzoic Acid and Some of its Derivatives.
 J. Allington Bridgman, B.Chem.: The Chemistry of Gallium.
 Deak Bain Carrick, A.B.: The Resistance of the Roots of Some Fruit Species to Low Temperature.
 Frank Everett Carruth, A.B.: Preparation of Some Disazo Dyes Similar to Congo Red with Reference to Introducing a Therapeutic Element or Group Into the Molecule.
 Hans, H. Dalaker, B.A.: On the Automorphic Functions of the Group (0, 3; 2, 4, 6.)
 Eugene Peyton Deatrick, A.B.: The Effect of Manganese Compounds on Soils and Plants.
 Gertrude Elizabeth Douglas, A.B., A.M.: A Study of Development in the Family Agaricaceae.
 Frans Eduard Geldenhüys, B.S.: Sociological Backgrounds and Agriculture in the Elementary and Secondary Schools of the Union of South Africa.
 Samuel Alexander Goldberg, D.V.M., A.M.: The Pathology of Spavin.
 Anna Mayme Howe, A.B., A.M.: The Classification of Plane Involutions of Order Three.
 David Stout Jennings, B.S.: The Effect of Certain Colloidal Substances upon the Growth of Wheat Seedlings.
 Oliver Ralph Overman, A.B., A.M.: Die angebliche Bedeutung der salpetrigen Säure bei der Bildung von Stickstoff-Wasserstoffsäure durch Oxydation von Hydrazin.

Master of Arts

Irene Girard, A.B.: An Analytical Index to Malory's Le Morte D'Arthur.

Masters of Science

Mary Stephens Carrick, A.B.: Some Studies in Fondant Making.
 William Arthur Hagan, D.V.M.: The Etiology and Mode of Infection in White Scours in Calves.

Masters of Science in Agriculture

Leon Emory Cook, A.B., B.S. in Agr.: Second Year Agriculture in the New York State High Schools for 1916-1917.
 Martin Russell Ensign, B.S.: A Study of Polyembryonism in *Citrus Grandis* Osbeck.
 Albert Hartzell, B.S.: A Biological Study of the Pine Tube Moth (*Eulia pinatubana* Kearfott.)
 Samuel Augustus McMillan, B.S.: An Economic Study of Agriculture on the Lufkin Fine Sandy Loam in Brazos County, Texas.

Master in Landscape Design

Kenneth Arthur Tapscott, B.S.: The Development of a Country Estate.

CONFERRED FEBRUARY 14, 1917

ADVANCED DEGREES

Masters of Arts

Waro Nakahara, B.S.: On the Physiology of the Nucleoli as Seen in the Silk-Gland Cells of Certain Insects.
 Emma Jane Traxel, B.S.: Victor Hugo's Les Burgravés.
 George James Wilds, jr., B.A.: Inheritance of Glume Characters in Avena.

Masters of Science in Agriculture

Henry Vroom De Mott, B.S.: The Identification of Varieties of Apples Through Twig and Foliage Characters.

Doctors of Philosophy

Charles Chupp, A.B.: Studies on Club Root.

Samuel Arthur Mahood, B.Sc., M.A.: Tetraiodophenolphthalein and Tetraiodophenoltetrachlorophthalein and some of their derivatives.

Doctors of Medicine

(Conferred June 14, 1917, at the Nineteenth Annual Commencement of the Medical College in New York City.)

Hilda Wood Allen, A.B., A.M.

Solomon Berger, A.B.

Albert Francis Coutant, B.S., A.M.

Archie Leigh Dean, jr., B.S.

Albert Barnett Ferguson, A.B.

Edward Paul Flood, A.B.

Joseph Haim Globus, B.S.

Louis Greiner, A.B.

Connie Myers Guion, B.A., A.M.

Henry Haywood, jr., B.S.

*David Rathburn Higbee, A.B.

Edward Hollander, B.S.

Abraham Kardiner, A.B.

Thomas Joseph Kirwin, Ph.C., B.S.

Warren Post Kortright, A.B.

*Gilbert Haven Mankin, A.B.

Merle Marion Mosier, A.B.

Linn Van der Hyden Reed, A.B.

Ralph David Reid, A.B.

Daniel Schultheis, A.B.

Galen Fisher Scudder, A.B.

Herman Sharlit, B.A., B.S.

John Lazear Sly, A.B.

Ramsay Spillman, A.B.

Lawrence Emerson Sprout, B.S.

James Dowling Trask, jr., Ph.B.

Kaufman Wallach, A.B.

PRIZES IN THE MEDICAL COLLEGE

The John Metcalfe Polk Memorial Prizes:

First Prize.....Connie Myers Guion

Second Prize.....Abraham Kardiner

Third Prize.....Edward Paul Flood

The Whiting Otology Prizes:

First Prize.....Albert Barnett Ferguson

Second Prize.....Connie Myers Guion

PRIZES

The following have been awarded by the Faculties during the academic year 1916-17:

The Sibley Prizes in Mechanic Arts:

First Prize.....John George Gates

Second Prize.....Davies Kirkland Banks

Third Prize.....Hermenegildo Balbino Reyes

Fourth Prize.....Maurice Burt Huntington

Fifth Prize.....Juan José Ruiz

The Horace K. White Prizes (Veterinary College):

First Prize.....Herbert Lester Gilman

Second Prize.....Michael John Kolar

The Woodford Prize in Oratory..... Ying Ching Yang

The Eighty-Six Memorial Prize in Declamation..... Marian Langworthy White

The Ninety-Four Memorial Prize in Debate..... Jacob Gould Schurman, jr.

The Guilford Essay Prize..... William Elmer Seely

The Corson Browning Prize..... Samuel Wilson

The Hollingworth Honorarium of Research (Veterinary College) { Erwin Veranus Moore
Michael John Kolar

Medal of the Societé des Architectes diplômés par le Gouvernement français for special artistic Merit:

First Medal.....Robert Henry McNaughton

Second Medal.....David Martin Bowes

The Clifford Beckwith Brown Memorial Medals in Architecture:

First Prize.....Leslie Verne Lacy

Second Prize.....Rosamond Wolcott

The Fuertes Medals : (Civil Engineering College)

Graduate.....Frederick William Scheidenhelm

Undergraduate.....Samuel John Leonard

*Degree conferred as of May 1, 1917.

The Eastman Prizes for Public Speaking:

First Prize.....Gladys Marion Hess
 Second Prize.....James Thomas Owens

The Frances Sampson Fine Arts Prize.....Frederick Totten Sutton

Jane Miller Prize, Veterinary Physiology..... { Solomon Nathan Blackberg
 Benjamin Finklestein

James Gordon Bennett Prize (Veterinary College).....George Webster Derrick

The Fuertes Memorial Prizes in Public Speaking:

First Prize.....Lester Verne Lacy
 Second Prize.....Ellsworth Lincoln Filby
 Third Prize.....Chester Carroll Hough

The Corson French Prize.....Leslie Charles Schwartz

The Stewart Prizes: (Agriculture College)

First Prize.....Jacob Clarence Mauer
 Second Prize.....Raymond Griswold Ballard
 Third Prize.....Stephen Raymond Farley
 Fourth Prize.....James Franklyn Ficken

The George Chapman Caldwell Prize in Chemistry.....Burt Haring Carroll

The J. G. White Prize in Spanish.....Rafael Carmoega

Student Medal of the American Institute of Architects.....Paul Hyde Harbach

Charles Goodwin Sands Memorial: (Architecture College)

First Medals, David Martin Bowes, Kenjiro Fujikura, Paul Hyde Harbach, Donald Fogel Innes
 Leslie Verne Lacy, Rosamond Wolcott

J. T. Morrison Prize.....Samuel Wilson

STUDENTS, DECEMBER 1, 1917

Abbreviations. The colleges are designated in the list of students as follows: Arts and Sciences, A; Agriculture, Ag; Architecture, Ar; Civil Engineering, C; Law, L; Mechanical Engineering, M; Medical, M.D.; Veterinary, V. Graduate Students are indicated by Grad; Special Students by Spec. The number, e. g. "1918," "1919," etc., indicates the year of expected graduation.

Abbott, George Maurice	1919 A	Boston, Mass
Abbott, Ruth Burleigh	1921 A	Phoenix
Abbott, Sara Dukehart	1918 Ag	Baltimore, Md.
Aborn, Benjamin, 2d	1918 Ag	Amagansett
Abrahams, Jacob	1920 A (Chem)	Brooklyn
Abrahams, Simon Meyer	1920 Ag	Brooklyn
Abreu, Francis Louis	1920 Ar	Newburgh
Acker, George Haigh	1920 M	Rochester
Acker, Leonard	1919 A	Poughkeepsie
Ackerknecht, Clarence Ferdinand	1918 A 1921 M.D.	Johnstown
Ackerly, Charles Edwin	1920 A	Cuba
Ackerman, James Pierson	1918 A	Edmeston
Acomb, Helen	1920 Ag	Dansville
Adams, Flora, B.A.	1920 M.D. (N. Y. C.)	Hackensack, N. J.
Adams, Harold Biscoe	1920 M.D. (N. Y. C.)	New York City
Adams, James Richard	1921 A (Chem)	Utica
Adams, John Davry	1921 M	North Troy
Adams, William, jr., A.B.	1921 M.D. (N. Y. C.)	Lawrence
Addoms, Helen Elizabeth	1919 A	Tuckahoe
Adelman, Arthur	1920 A	Brooklyn
Adelmann, Howard Bernhardt	1920 A	Buffalo
Adelsberg, Hyman	1921 A	Brooklyn
Aderer, Edwin	1921 A	New York City
Adler, Erna	1919 A	New York City
Ahrens, Walter William	Spec L	Brooklyn
Aichner, Harry Clifford	1921 L	Erie, Pa.
Aierstok, William Matthias	1918 A (Chem)	Newark, N. J.
Aikins, John Roberts	1921 M	Buena Vista, Pa.
Airey, Esther	1920 A	Buffalo
Albin, Archer Overton	1922 M	New York City
Albright, Marian Ruth	1919 A	Canandaigua
Alcus, Felix Leiser	1920 M	New Orleans, La.
Aldrich, Howard Seth	1920 Ag	Fredonia
Aldrich, Mildred Lois	1921 Ag	Castile
Aldrich, Nathan Everett	1919 Ag	Fredonia
Aldrich, Ruth Imel	1920 A	Fredonia
Aldridge, Harvey Carlton	Spec Ag	Victor
Alexander, J. Harry, jr.	1921 M	Brooklyn
Alexander, William Prindle	Spec Ag	Ithaca
Alhadeh, Solomon	1920 Ag	New York City
Allanson, Roy Adolph	1921 Ag	Ithaca
Albright, Norman Jacobs	1920 A	Chicago, Ill.
Alleman, Elisabeth	1921 Ag	MacDougall
Allen, Charles Loring, B.A.	Grad	Brodhead
Allen, Eugene Wex	1920 Ar	Buffalo
Allen, Fern Litchard	1920 A	Hornell
Allen, Howard George	1920 M	Albion
Allen, Mavea Geraldine, B.S.	Grad	Denver, Col.
Allen, Milford Seth	1920 A	Plattsburg
Allen, Raymond Peck	1920 A	Lima
Allen, Reginald Holcomb	1918 Ag	Ithaca
Allen, Robert Bernard	1922 M	Denver, Col.
Allis, Ethel Elizabeth	1919 Ag	Ithaca
Allis, Selden Pierson	1918 M	Macedon
Allison, Elmer Roy	1921 Ag	Peekskill
Aloe, Arthur	1919 A	Philadelphia, Pa.
Althouse, Samuel Leinbach	1920 Ag	Sellersville, Pa.
Alward, Elizabeth	1918 Ag	Buffalo
Amaral, Hermano	1920 C	Sao Paulo, Brazil
Ambler, Alice Hannah	Spec Ag	Plymouth Meeting, Pa.
Anderson, Ernest Gustaf, B.Sc.A.	Grad	Concord, Nebr.
Anderson, Herbert Charles	1921 M	Chicago, Ill.
Anderson, Raymond Terhune	1920 A	Shreveport, La.
Andrew, Earl Raymond	1921 C	Danbury, Conn.
Andrews, Hazel Marian	1921 Ag	Newark Valley
Andrews, Henry Vincent	1921 A	Lyons

Andrews, (Miss) Sophia Townsend, A.B., M.A.	1919 M.D. (N. Y. C.)	New York City
Angell, Stanley Jewett	1918 Ag	Mt. Upton
Angus, Albert Stuart	1918 A	Brooklyn
Anthony, Roy David, B.S., B.S.A., M.S.A.	Grad	Geneva
Antonelli, Peter	1919 M	Chicago, Ill.
Apfel, Amy Ruth	1920 A	Brooklyn
Apgar, William Burnet	1921 Ag	Madison, N. J.
Apthorpe, Charles Wilbur	1922 M	Auburn
Archbold, William Cornell	1921 M	Syracuse
Archibald, Jane Isabelle	1921 A	Bovina Center
Archibald, Walter Douglas	1920 A	New York City
Armbruster, Frederick Wm., jr., B.S. in M.E.	1918 M	Irondequoit
Armstrong, James Blanchard	1921 M	Schenectady
Armstrong, Walter Earnest	1920 L	Owego
Arnold, Anne Parker	1918 A	Montello, Mass.
Aronowitz, Max Bernard, A.B.	1921 M.D. (N. Y. C.)	New York City
Arosemena, Pablo Constantino	1919 Ag	Panama, Panama
Artschwager, Ernst Friedrich, B.S.	Grad	Ithaca
Aschaffenburg, Eugene Albert	1921 A	New Orleans, La.
Ashcroft, Alfred Griffin	1921 M	Brooklyn
Ashley, Carlyle Martin	1921 M	Washington, D. C.
Ashley, Dorothy	1918 Ag	Washington, D. C.
Ashton, Henry Rusling	1921 L	Trenton, N. J.
Askin, Seymour Rosenbloom	1920 L	New York City
Asurowitz, Solomon Saul	1921 M.D. (N. Y. C.)	Jersey City, N. J.
Athana, George Estrate	1920 M	Bronxville
Athoe, Harold William	1920 L	Ridgeway, Ont., Canada
Atkinson, Harry Victor, B.S.	Spec (N. Y. C.)	Van Wert, Ohio
Atkinson, Jerome Thomas	1921 A (Chem)	Bayside, L. I.
Atwood, John Cowan, jr.	1920 M	Ferguson, Mo.
Atwood, Leland Leavitt, A.B.	Grad	Plymouth, N. H.
Au, Sydney Siu-On	1918 Ag	Canton, China
Aubert, Francis	1918 M	Mexico City, Mex.
Auchter, Eugene Curtis, B.S. in Agr.	Grad	Morgantown, W. Va.
Augenblick, Jacob	1918 A	Newark, N. J.
Augur, Tracy Baldwin, A.B.	1918 Ag	Brooklyn
Ausman, Edith May	1918 A	Herkimer
Austin, German LeRoy	1919 Ag	Glens Falls
Avery, Volney Amos Sanford	1918 Ag	Ferrisburg, Vt.
Ayars, David Preston, jr.	1919 M	Wilkes-Barre, Pa.
Babcock, Norman Clark	1918 A	Hornell
Babor, Rudolph Joseph	1918 Ag	New York City
Bachkoff, Jacob	1919 C	New York City
Backer, William	1921 C	New York City
Backus, Charles William	1921 L	New Berlin
Bacon, Roland Henry	1918 M	Rochester
Badanes, August	1918 A (Chem)	New York City
Badger, Katharine	1921 A	Ithaca
Baer, Walter Arthur	1920 M	Paterson, N. J.
Baer, Walter David	1920 M	Pittsburgh, Pa.
Baerg, Gerhard, A.B.	Grad	Hillsboro, Kansas
Baerg, William J., A.B.	1921 M.D.	Ithaca
Bahan, Emmons Richard	1921 M	Fort Worth, Tex.
Baier, Nathan	1920 C	New York City
Bailey, Charles Chester	1921 A (Chem)	Oakmont, Pa.
Bailey, Elmer James, Ph.B., Ph.M., A.M., Ph.D.	1919 Ag	Ithaca
Bailey, Fay Cook, Mr.	1919 A	Canton
Bailey, Milton, jr.	1921 M	Jamestown
Bailey, Morrison Kyle	1920 Ar	Lakewood, O.
Bailey, Roger	1920 Ar	Jamestown
Bailor, Winifred Georgie	1920 Ag	Brookton
Baker, Anna Frances	1920 A	Oneida
Baker, Charles Willgriff	1921 Ag	Jamaica
Baker, David Wright	1919 A	Dunkirk
Baker, Edward Vreeland	1922 M	Willsboro
Baker, Helen Dorothy	1921 Ag	Ithaca
Baker, Louise Eugenie	1919 A	Ithaca
Baker, Lucinda Monica	1918 Ag	Fond du Lac, Wis.
Balcom, Ruth Marion	1921 A	Rockville Centre, L. I.
Baldelli, Zeno Hugo	1920 Ag	Corona
Baldrige, Anthony Octavus Russell	1921 A	Jersey City, N. J.
Baldwin, Andrew Grey	1921 Ag	Brooklyn
Baldwin, Horace Strow, B.S.	1921 M.D. (N. Y. C.)	Orange, N. J.
Balenzweig, Irvin	1918 M.D. (N. Y. C.)	New York City
Ball, Dorcas Janette	1918 A	Ithaca
Ball, Thomas Mueller	1920 M	Detroit, Mich.
Ballantine, Elizabeth Stuart	1921 A	Philadelphia, Pa.
Ballard, Raymond Griswold	1919 Ag	McLean
Ballentine, Almyr Cooper	1920 M	Newark, N. J.

Ballou, Charles Augustus, jr.	1921 Ag	Brooklyn
Ballou, Harold	1921 A	New York City
Ballou, Hosea Cushman	1920 A	New York City
Bancroft, Mary Warner	1918 A	Ithaca
Banker, Jerrie Ostrander	1918 Ag	Plattsburgh
Banks, David Houser, B.S.	1918 M	St. Matthews, S. C.
Banks, Josephine	1919 A	Ithaca
Banse, Herbert George	1921 Ar	Chicago, Ill.
Banta, Theodore Charles	1922 M	Ridgewood, N. J.
Barasch, William	1921 M	New York City
Barbour, Lemont	1921 A	New York City
Bard, James Mackey	1920 Ag	Pleasantville
Barkdull, Roy Edgar	1921 M	New Orleans, La.
Barker, Charles Edward	Spec M	Frankfort
Barker, Clifford Van Keuren	1922 C	Staatsburg
Barker, Gardner Thurston	1921 Ag	Croton-on-Hudson
Barnes, Frank Edward, A.B.	1919 M.D. (N. Y. C.)	Brooklyn
Barnes, Harry Wilbur	1921 C	Detroit, Mich.
Barnes, Morris	1918 C	Brooklyn
Barr, James Jacob	1918 Ag	Lancaster, Pa.
Barra, Frederick	1920 Ag	New York City
Barrett, Irma Frances	1921 A	Troy
Barrett, Willard Riehlman	1920 A (Chem)	LaFayette
Barrett, Winnie Mae	1920 Ag	Binghamton
Barros-Hurtado, Guillermo	1919 Ag	Santiago, Chile
Barrus, Sheldon Monroe	1919 Ag	Keuka Park
Barstow, Mary Eleanor	1918 A	New York City
Barthel, Else Anna Sophie, B.S.	1920 M.D. (N. Y. C.)	New York City
Bartlett, Bruce Jones	1921 Ag	Sandy Creek
Bartlett, Willard John	1920 A (Chem)	Galeton, Pa.
Bartoli, Joseph Faraci	1921 A	New York City
Barton, John Allen	1921 C	Belton, Texas
Bassett, Clark Blakesley	1921 Ag	Coopers Plains
Bassett, Harold Rhodes	1918 C	Ithaca
Bassett, Samuel Hopkins	1920 A	Coleman's Sta.
Bastian, William Garvin	1921 M	Zelienople, Pa.
Bateman, Frank Brace	1919 A	Grenloch, N. J.
Bateman, Helen Marion	1921 A	Champlain
Bateman, Margaret Louise	1919 A	Champlain
Batsford, Edwin Goodrich	1918 Ag	Utica
Baughner, Irving Bosley	1921 A	Baltimore, Md.
Baur, Oscar, jr.	1922 M	Chicago, Ill.
Baxter, Eric	1921 Ag	Utica
Baxter, Gregory Phipps	Spec Ag	Kinderhook
Bayard, Frances Martin	1920 M	Philadelphia, Pa.
Bayle, Francis Lawrence	1919 M	Glens Falls
Baylinson, Harry Alexander	1920 Ag	New York City
Beach, Stafford Bacon	1921 A	West Palm Beach, Fla.
Beach, Stephen Stanley	1919 Ag	Mansfield, Pa.
Beakes, Mahlon Henry	1919 Ag	New York City
Beals, Harlo Peabody	1919 Ag	Wayland
Beam, Daniel Sayre	1921 Ag	Hemlock
Bean, Allan Russell	1920 Ag	McGraw
Bean, Frances Ashton, B.A.	Grad	Elyria, O.
Bean, Merton Russell	1918 Ag	McGraw
Beard, Reba Lizzette	1918 Ag	Harrisonburg, Va.
Beardsley, Arland Frederic	1920 Ag	Trumansburg
Beardsley, Wallace Pearne	1920 Ar	East Orange, N. J.
Beatty, John Leaseure	1921 M	Beatty, Pa.
Bechtel, Albert Reiff, B.S., A.M.	Grad	Royersford, Pa.
Beck, Florence Gertrude	1921 Ag	Aurora
Beck, Martin Grinnell	1920 Ag	Aurora
Beck, Robert J., A.B.	1921 M.D. (N. Y. C.)	New York City
Becker, Joseph Adam	1918 A	Elmont
Becker, Julia Ernestine	1918 Ag	Baltimore, Md.
Beckwith, Charles Allen	1921 M	Buffalo
Beggs, Eugene William	1919 A (Chem)	Glen Ridge, N. J.
Behr, Leo	1918 M.	Brooklyn
Behrmann, John Henry	1918 Ag	Ithaca
Belcher, Harold Stewart, A.B.	1920 M.D. (N. Y. C.)	Newark, N. J.
Belden, Louise Fuller	1919 A	Fredonia
Bell, Raymond William	1920 Ag	Brasher Falls
Beller, Jerome Harold	1918 A (Chem)	Buffalo
Bellios, Christopher Nicaloas	1921 L	Ashtabula, O.
Bellis, Bernard	1919 Ag	New York City
Bemis, Lloyd Edward	1920 C	Chicago, Ill.
Bend, William Isidor	1920 Ag	Brooklyn
Bendet, Julius	1921 A (Chem)	New York City
Benedict, William Henry	1921 L	Roselle, N. J.
Benedict, John King	1921 A	Poughkeepsie

Bengtsson, Otelia Josephine	1919 A	Ossining
Benham, John Latham	1921 A (Chem)	Niagara Falls
Benisch, Henry John	1920 C	Brooklyn
Bennet, Edgar Herbert	Spec Ag	Brooklyn
Bennet, Robert Hadley	1921 M	Brooklyn
Bennett, Curtis Burnam	1919 C	Richmond, Ky.
Bennett, Guy Bowles	Spec M	Wayland
Bennett, Helen Houghton	1918 Ag	Interlaken
Bennett, John Benjamin	1920 Ag	Pratt, Kans.
Bennett, Ross Garrison	1918 A	New York City
Bennett, Theodore Lake	1921 A	Geneseo
Bennett, William Sabin	1919 L	Cody, Wyo.
Benson, John Phineus, B.S.	Grad	Ithaca
Benson, Keith William	1919 A	Sterling, Ill.
Bentley, Louise Clift	1918 A 1921 M.D.	Brooklyn
Benton, Millard Warren	1919 L	Cortland
Benvenuto, John Anthony	1921 Ag	New York City
Berglas, Jacob Benjamin	1919 A	Brooklyn
Bergstein, Samuel	1920 Ag	Brooklyn
Berkeley, Florence	1919 Ag	Brooklyn
Berkowitz, Hyman, A.B.	Grad	Brooklyn
Berkowitz, Morris	1920 A	Brooklyn
Berls, Magdalena Olga	1919 Ag	New York City
Berman, Herman	1918 C	Brooklyn
Berman, Irving Louis	1921 Ag	Brooklyn
Berner, Frank, A.B.	1921 M.D. (N. Y. C.)	Toronto, Ont.
Bernstein, Frieda May	1918 A	Spring Valley
Berston, James Lewis	1918 A (Chem)	Yonkers
Bertran, Juan Manuel	1918 C	Humacao, Porto Rico
Besemer, Arthur Merle, B.S.	Grad	Ithaca
Betts, Howard Messerer	1921 M	Minneapolis, Minn.
Betts, William Royston, jr.	1921 Ag	Highwood, N. J.
Beyer, Benjamin Wesley, jr.	1920 M	Cincinnati, O.
Bezer, Charles Arthur	1921 A	Brooklyn
Bichwit, Leonard	1918 A	Brooklyn
Bick, Henry, jr.	1918 L	Brooklyn
Bickel, William Dosh	1921 M	Pittsburgh, Pa.
Bickford, Edwin Blake	1920 Ag	Elmira
Bienenstock, Joseph, B.S.	1919 V	New York City
Bier, Robert, B.S.	Grad	Ithaca
Bigelow, Claude Myron	1920 M	Penn Yan
Bigelow, Phelps Edward	1920 Ag	Bloomington
Biggs, Carl Hatheway	1918 A 1921 M.D.	Alhambra, Cal.
Billings, William Arthur	1918 V	Ithaca
Biloon, Sol, B.S.	1919 M.D. (N. Y. C.)	New York City
Binns, Elston Voorhees	1920 Ar	Elizabeth, N. J.
Binswanger, Samuel Emanuel	1919 Ar	Richmond, Va.
von Binzer, Werner Frederic	1921 A (Chem)	Alton, Ill.
Bird, John Herman	1920 Ag	Buffalo
Bird, Samuel Bancroft	1921 M	Wilmington, Del.
Birkholz, Chester Robert	1920 Ag	Rahway, N. J.
Bisbee, Clarence Arthur	19 0 Ag	Waitsfield, Vt.
Bishop, George King	1919 M	Cleveland, O.
Bishop, Homer Guy, B.S., M.S.	Grad	Ithaca
Bissett, John Vail, B.Sc.	1918 M.D. (N. Y. C.)	New York City
Bitker, Bruno Voltaire	1920 A	Milwaukee, Wis.
Bitner, Ralph Emerson, B.S., M.S.	Grad	Center Hall, Pa.
Black, Mildred Ruth	1918 A	Lake View
Black, William Hilbert	1921 M	High Bridge, N. J.
Blackberg, Solomon Nathan	1918 V	Ellenville
Blackburn, Walter Gerard	1919 A (Chem)	Yonkers
Blackwell, Carl Petty, B.S., M.S.	Grad	Austin, Tex.
Blair, Charlton George	1920 Ag	Buffalo
Blair, Howard Emmons	1918 Ag	Phelps
Blake, Elizabeth Wilson	1920 A	Washington, D. C.
Blake, Marion Elizabeth, B.A.	Grad	New Haven, Conn.
Blanchard, John David	1920 A	Groton
Blanche, Herbert Martin	1920 Ag	Ithaca
Blanke, Donald Cutler	1921 M	Greenwich, Conn.
Blau, Albert	1921 M.D. (N. Y. C.)	New York City
Blau, Nathan	1918 V	Ithaca
Blauvelt, Grace Brown	1921 Ag	Paterson, N. J.
Blauvelt, Livingston, B.A.	1920 Ag	New York City
Blauvelt, Louisa Simpson	1919 Ag	Canajoharie
Blazey, Byron Charles	Spec Ag	Victor
Bleakley, Paul Lataunt	1920 L	Yonkers
Bleecker, Winthrop Gilman	1920 M	New York City
Bleiman, Gladys Katherine	1919 A	New York City
Blew, William Harry	1919 M	Niagara Falls
Blewett, William Edward	1918 M	Glen Ridge, N. J.

Blinn, Samuel Amos	1921 Ag	Candor
Bliss, Grace Huntington	1919 A	Jamestown
Blodgett, Harold William	1921 A	Corning
Blodgett, Helen Matilda	1920 Ag	Dunkirk
Blodgett, Lewis Alderman	1919 A	Corning
Blodgett, Mary Catherine	1918 Ag	Ithaca
Bloom, Dora Ruth	1919 A	Paterson, N. J.
Blowers, Irma Kathryn	1920 A	Westfield
Bloy, Myron Barnett	1920 Ag	Detroit, Mich.
Blum, Samuel	1918 Ag	New York City
Blumberg, Ralph, A.B.	1920 M.D. (N. Y. C.)	Brooklyn
Blumenthal, Lewis	1921 M	Brooklyn
Blydenburgh, George Theron, B.S.	1918 M.D. (N. Y. C.)	Richmond Hill
Boardman, Don Arol	1918 V	Springville
Bobker, Harry	1918 C	Brooklyn
Bock, George Frederic	1918 A 1921 M.D.	Lancaster
Bodansky, Aaron, B.S.	Grad	Ithaca
Bodansky, Meyer	1919 A	New York City
Boehm, Arthur Bruce	1919 M	Baltimore, Md.
Boehnel, William	1921 A	New York City
Bogart, Harold Elmer	1918 A 1921 M.D.	New York City
Bogert, Ralph Forbes	1921 A (Chem)	Upper Montclair, N. J.
Bohall, Willard Elton	1921 Ag	Lowville
Bohannon, Charles Dudley, A.B.	Grad	Ithaca
Boies, Charles Dwight	1918 A	Woodhaven, L. I.
Bolan, Francis Joseph	1921 A	Waterbury, Conn.
Bole, Lyman Watts	1919 Ag	East Hardwick, Vt.
Bolgiano, Charles Walton	1918 Ag	Washington, D. C.
Bollinger, Howard Foster	1918 A	Millerstown, Pa.
Bollinger, Ralph Leo	1921 M	Pittsburgh, Pa.
Bollman, Henry Otto	1922 M	St. Louis, Mo.
Bolton, Caroline Grace	1921 A	Oil City, Pa.
Bolton, Luella Ann	1921 Ag	New Hartford
Bolton, William Worden	1921 A	Oil City, Pa.
Bonagura, Alphonse	1919 C	Brooklyn
Bond, Lyman Ormsbee	1920 Ag	Port Henry
Boochever, Florence	1918 A	Albany
Bookstein, George Joseph	1921 Ag	Albany
Bool, Helen Grace	1919 Ag	Ithaca
Boorstein, Isadore Harris	1920 A	Bayonne, N. J.
Booth, Harold Simmons, A.B., A.M.	Grad	Cleveland, O.
Booth, Richard Edward	1920 L	Wilkes-Barre, Pa.
Borchers, Harry Jacob	1920 Ag	Brooklyn
Borelli, Tomas	1921 C	Coamo, Porto Rico
Bosanko, Arthur Kingsley	1921 A (Chem)	Glens Falls
Bose, Charles Herman	1918 L	Bayonne, N. J.
Boshart, William Elida	1918 Ag	Lowville
Boshnakian, Sarkis, B.Sc.Agr.	Grad	Ithaca
Bosworth, Henry Burt	1921 Ag	Buffalo
Botsford, Harold Eugene	1918 Ag	Ithaca
Bott, Clarence Comstock	1921 M	Clinton
Boucher, Henry Negus	1918 Ag	Brooklyn
Boudin, Eleanor	1921 A	Brooklyn
Boughton, Paul Ninde	1919 Ag	Brooklyn
Bowen, Dorothy Temple	1919 A	Montvale, N. J.
Bowen, Elizabeth	1921 Ag	Randolph
Bower, Harold Ferdinand	1921 M	Johnstown
Bower, Lawrence Robert	1921 V	Trumansburg
Bowers, Cyril Yarling	1919 M	Dayton, O.
Bowker, John Hall	1918 Ag	Cortland
Bowler, Elizabeth	1920 A	Absecon, N. J.
Bowles, Robert Brigham	1919 C	Houston, Texas
Bowman, Alma Mary	1918 A	Norwich, Conn.
Bowman, Evelina Pitcher	1920 Ag	Brooklyn
Bowman, Harold Cook	1919 M	Ogdensburg
Bowman, Theodore	1921 Ag	White Plains
Boyd, Alice Vernette	1918 Ag	Afton
Boyd, George Adams	1921 A (Chem)	Middletown
Boyd, Robert McDowell	1921 L	Saginaw, Mich.
Boynton, Alice A.	1918 Ag	Cuba
Bradford, James Henry Howe	1921 C	Springfield, Mass.
Bradford, Paul	1918 A	Ithaca
Bradley, Catherine Gibbons	1920 A	Hoosick Falls
Bradley, Fred VanNess	1921 A	Rogers, Mich.
Bradley, Jesse Franklin, A.B.	Grad	Ithaca
Bradley, John Jewsbury, jr.	1921 Ag	Washington, D. C.
Bradley, Ruth Winifred	1919 A	Silver Springs
Bradt, Clarence Greenfield	1920 Ag	Rome
Brady, John Franklin, jr.	1919 M	Kansas City, Mo.
Brady, Samuel Dunlap, jr.	1921 C	Fairmont, W. Va.

Braman, Chester Rounds	1920 A	Cortland
Brandel, Myron Philip	1919 M	Hamburg
Brandes, Elmer Walker, B.S., M.S.	Grad	Detroit, Mich.
Brandes, George Henry	1918 A (Chem)	Oswego
Brannon, James Marshall, B.A., M.A.	Grad	Ithaca
Branyen, John Paul	1921 L	Minneapolis, Minn.
Brauer, Benjamin Bernard	1921 A	Jersey City, N. J.
Braun, Sidney	1921 M	New York City
Brause, Esther Rella	1921 L	Glen Cove
Bray, Mark Wilder, A.B., M.S.	Grad	Appleton, Wis.
Brayman, Eugene	1921 C	Penn Yan
Brayman, Harold Leslie	1920 A	Middleburg
Bregger, Thomas, B.S.	Grad	Ithaca
Bremer, Harry Earl, B.S.	Grad	Amsterdam
Brennan, Elizabeth Mary	1918 A	Kingston, Pa.
Brennan, Harold Edmund	1921 A	Yonkers
Brenner, Jacob	1921 C	Union Hill, N. J.
Brew, Julia Isabel	1919 L	Brooklyn
Brew, Mary Frances, B.A.	1920 M.D. (N. Y. C.)	Brooklyn
Brewster, Eugene Rainier	1921 Ag	Marion
Brewster, Irene	1920 Ag	Cornwall
Bridges, Clayton Thomas	1918 Ag	Fairport
Bridges, Ernest, B.A.	Grad	Greenville, S. C.
Briegel, Julius Leo	1921 Ag	Briarcliff
Briggs, Alfred Poyneer, B.S.	1920 M.D. (N. Y. C.)	Los Angeles, Cal.
Briggs, Leslie Eadie	1921 L	Homer
Bright, Fannie Jean	1921 Ag	Lansdale, Pa.
Brillhart, Norman W., B.A.	Grad	Kaufman, Texas
Brillinger, Henry Beitzel	1921 M	York, Pa.
Britt, Robert Emery	1920 Ag	Adams Basin
Brock, Frances Rosalie	1920 Ag	Mount Vernon
Brodner, Meier	1918 V	Brooklyn
Brogan, Thomas Henry	1921 Ag	New York City
Bromilow, Mary Elizabeth	1921 Ag	Hillsdale, N. J.
Brookmire, Neil Ivan	1919 M	Findley Lake
Brooks, Daniel Bosley	1919 Ag	Cockeysville, Md.
Brossard, Edgar Bernard, B.S., M.S.	Grad	Ithaca
Brossard, Laura Cowley	Spec Ag	Ithaca
Brotherhood, Lillian Fred	1921 Ag	Brooklyn
Brown, Anthony Joseph	1918 A	Corning
Brown, Blanche Laura	1921 A	Webster
Brown, Carmilla June	1918 Ag	Harford
Brown, Charles Elmer	1918 V	Onoville
Brown, Chauncey Fairfield, A.B.	1920 M.D. (N. Y. C.)	La Crescenta, Cal.
Brown, Clarence Wesley	1922 M	Akron, O.
Brown, Colonel Loren	1919 Ag	Hilton
Brown, Ellsworth Sheffer	1921 V	Shortsville
Brown, Fayette Elwin	1920 M	Iron Mountain, Mich.
Brown, Franklin Edwin	1918 Ag	Trumansburg
Brown, Laura Bayette	1919 A	Ithaca
Brown, Lucien Seymour	1920 A	Akron, O.
Brown, Mary Celia	1920 A	Ithaca
Brown, Norman Pierson	1921 Ag	Bernardsville, N. J.
Brown, Randolph Milton	1919 Ag	Stapleton
Brown, Richard Harter	1919 L	Romulus
Brown, Robert Roth	1921 L	Chrome, N. J.
Brown, Roger Crafts	1920 A	La Crescenta, Cal.
Brown, Ruth Eleanor	1918 A	Burdett
Brown, Wesley Bennett	1920 M	Sidney
Bruckheimer, Alleyne Henry	1919 A	Buffalo
Brundidge, Violet Florence	1920 Ag	Oneida
Brunner, Leon Dispeau	1918 V	Binghamton
Brunson, Wright Abel	1918 V	Moons
Bryan, Josephine Stevens	1921 A	Ithaca
Bryant, Maynard Luther	1921 V	North Troy
Bryne, Gladys Adelle	1920 Ag	Auburn
Buchanan, David Houston	1920 L	Temple, Texas
Bucher, Lloyd Day	1919 Ag	Brooklyn
Buck, Harry Emmer	1921 Ag	Newark Valley
Buckhout, Harriette Cora	1920 Ag	Scipioville
Buckley, Sidney Slater	1919 Ag	Tuckahoe
Buckley, Theodore Talmadge, jr.	1921 Ag	Cambridge
Bucknam, Delilah Hayes	Spec Ag	Jamestown
Budd, James Marshall	1919 Ag	Philadelphia, Pa.
Buell, William Ray	1919 Ag	Norwich
Buerger, Otto Martin	1920 A	Buffalo
Buffum, David Bradley, A.B.	Spec Ag	New York City
Buffum, Marjorie North	Spec Ag	New York City
Bull, Arthur Walker	1919 A (Chem)	Keeseville
Bullard, George Percival	1919 C	Ithaca

Bullard, Helen Elise	1919 Ag	Schuylerville
Bullen, John Nixon	1920 Ar	Chicago, Ill.
Bumstead, Dale, jr.	1921 M	Oak Park, Ill.
Bungart, Paul Mercer	1921 Ag	Oceanside
Burch, Gerald Lee	1921 L	New Berlin
Burchard, Albert Stanley	1918 Ag	Oxford
Burdick, Maude Amelia	1918 A	Interlaken
Burgunder, Bernard Frank	1918 A	New York City
Burk, Richard Martin	1921 M	Okmulgee, Okla.
Burke, Alice Mary	1918 A	Canandaigua
Burke, Thomas	1919 A	Oneida
Burlage, Stanley Ross, B.S.	Grad	Fredonia
Burns, Mildred Elizabeth	1920 A	Burdett
Burns, Robert Conner	1921 A (Chem)	Ithaca
Burr, Walter Haynes	1920 Ag	Pawling
Burroughs, Ambrose Matson	1919 Ag	Albion
Burt, Adena Katherine	1918 A	Lake George
Burt, Lester Pultz	1919 M	Catatonk
Burt, Robert Chester	1920 M	Battle Creek, Mich.
Burton, Raymond Charles	1920 A	Rock Island, Ill.
Busch, Ralph Bering	1922 M	Cincinnati, O.
Buschman, Robert Petring	1920 M	East Orange, N. J.
Bush, Harold Leland	1921 A	Ludlowville
Bush, Harold Watrous	1922 C	Warsaw
Bush, Howard Jackson	1920 C	Gloversville
Bush, Raymond Bates	1918 Ag	Kennedy
Bushman, Willard Wilson	1921 M	Buffalo
Bussell, Frank Pores, A.B.	Grad	Ithaca
Bussey, Robert Edgar	1918 M	Yonkers
Butler, Bryant Ormond	1921 Ag	Catonsville, Md.
Butler, Gertrude Elinor	1921 Ag	Troy
Buttery, Clayton Joseph, A.B., A.M.	Grad	Ithaca
Button, Dorothy Markham	1919 Ag	Farmingdale
Button, Forrest Clifton, B.S.	Grad	Dunkirk
Butts, Wilbur Kingsley	1918 Ag	Poughkeepsie
Buys, John Levenus	1919 Ag	Sodus Point
Byrd, Ralph Hamilton	1920 M	Suffolk, Va.
Byrne, Edward Munson	1919 M	Washington, D. C.
Byron, Charles Stanford	1919 A	Brooklyn
Cable, Elva Mae	1921 A	Walton
Cable, Jo Harnly	1918 M	Lima, O.
Cadiz, Edwin Firth	1920 A	Brooklyn
Cady, Donald Watson, A.B.	1920 M.D. (N. Y. C.)	New Rochelle
Cady, Elizabeth Catherine	1919 A	Ithaca
Cady, Stanley Hurbutt	1918 M	Spencerport
Caeser, David	1921 A	Brooklyn
Cahoon, Charles Wilbur, jr.	1919 A	St. Louis, Mo.
Calkins, Donna Rosamond	1921 A	Oakfield
Call, Evelyn Clara	1919 Ag	Stafford
Callahan, Alice	1920 A	New West Brighton
Campbell, Frank Lincoln, jr.	1921 A	Omaha, Nebr.
Campbell, James Monroe	1919 A	Oklahoma City, Okla.
Campbell, Margaret G.	1921 A	Valparaiso, Ind.
Campbell, Robert Argyll, A.B.	Grad	Ithaca
Campion, Stephen Anthony Martin	1921 A (Chem)	East Orange, N. J.
Campos, Francis Pastor	1921 M	New York City
Cannon, John Francis	1920 A	Locust Gap, Pa.
Cantor, Jacob August, B.A.	1918 M.D. (N. Y. C.)	New York City
Caplan, Harry, A.B., A.M.	Grad	Albany
Capron, Theodore Jackson	1919 Ag	Wayland
Card, Dana George	1919 Ag	Sylvania, Pa.
Carey, Daniel John	1919 Ag	Ithaca
Carll, George Eaton	1920 A (Chem)	Cleveland, O.
Carll, Haidee	1920 A	Halesite
Carlson, Earl Leonard	1921 M	Smethport, Pa.
Carney, Colwell Joseph	1920 M	Newburgh
Carpenter, Arthur Eldred	1918 A	North Bangor
Carpenter, Charles Milton, D.V.M.	Grad	Ithaca
Carpenter, Clifford Deane	1920 V	Unadilla
Carpenter, Edwin John, jr.	1918 A	Corning
Carpenter, Evie Lee	1918 Ag	Yonkers
Carr, Harold Fremont	1921 M	San Juan, Porto Rico
Carr, Hugh Roderick	1920 M	New York City
Carrasco-Calvo, Juan Leopoldo, A.B.	1919 M	Temuco, Chile
Carrier, Egbert Wendell	1921 A (Chem)	Phoenix
Carrino, Constantine Nicholas	1920 M	Brooklyn
Carroll, Arlo Bowlby	Spec Ag	Ithaca
Carroll, Jane Garry	1919 A	Cleveland, O.
Carry, Charles William	1920 A	Chicago, Ill.

Carson, Estle Clarence, A.B.	Grad	Leesburg, O.
Carson, James Reed	1920 M	Pittsburgh, Pa.
Carter, Lorraine Whitney	1922 C	Worcester, Mass.
Carty, John Russell, B.S.	1921 M.D. (N. Y. C.)	Short Hills, N. J.
Carver, Kenneth	1920 Ar	Brooklyn
Carver, William Van Ness	1918 Ag	Brooklyn
Cary, Edward Beverly	1920 M	Roanoke, Vt.
Case, Alice Helen	1920 A (Chem)	Philmont
Case, Louise Wheeler	1918 A	Interlaken
Casey, James Van Schoon Hoven	1922 C	Mohawk
Casey, John Augustine, B.A.	1918 M.D. (N. Y. C.)	New York City
Cashman, William Grasselli	1921 L	Cleveland, O.
Cassin, William Mains	1921 Ag	Sodus Point
Castle, Hempstead	1921 Ag	Albany
Castro y Fernandez, Rafael Maria	1921 L	Santurce, P. R.
Castro-Martinez, Eduardo	1922 C	San Juan, P. R.
Chadeayne, Henry Frost	1918 C	Firthcliffe
Chadwick, John Rappleye	1921 Ag	Interlaken
Chai, Ping Hai	1921 A	Tientsin, China
Chalmers, Alfred James	1921 A	New York City
Chamberlain, Carl Christoph	1919 Ag	Elmira
Chamberlain, Frederick Parshall	1921 Ag	Lyons
Champlin, Pearl Edith	1920 Ag	Oneida
Chan, Iu Choo, B.S.	1918 C Grad	Canton, China
Chang, Cheh Yao, B.S.	Grad	Tientsin, China
Chao, Kuo Tung	1919 M	Shanghai, China
Chapin, Oscar Hilan	1918 Ag	Greenwich
Chapman, Dorothy Lyon	1919 Ag	Port Richmond
Chapman, Margaret Lyon	1918 A	Port Richmond
Chapman, Phyllis	1919 Ag	Brooklyn
Chapman, Wilbur Fiske, A.B.	1918 L	Philadelphia, Pa.
Chappell, John Thomas, B.S.	Grad	Houstonville, N. C.
Charles, Delphine Kathryn	1920 A	Warsaw
Charlton, Thomas J., jr., B.A.	1921 M.D. (N. Y. C.)	Savannah, Ga.
Chaskin, Harold S.	1921 M	New York City
Chavanne, John Joseph	1921 C	Woodhaven
Cheesman, Roy Walling, B.Arch.	Grad	Rochester
Chelimer, Miles Byron	1920 Ag	New York City
Chen, Che Kwei	1919 A	Tientsin, China
Chesebrough, M. Arlouine	1918 A	West Edmeston
Cheston, James Hunter	1921 C	Yonkers
Cheung, Cheuk Kwan, B.S.	Grad	Canton, China
Chiavetta, Thomas Charles	1920 A (Chem)	Brant
Chien, Chih Lan, B.S.	Grad	Washington, D. C.
Childs, George Henshaw, B.A., M.A.	Grad	Minneapolis, Minn.
Chirlian, Gustave	1921 C	New York City
Chisholm, William Cairns	1922 M	Delhi
Chiu, Hsieh Chun, B.S. in C.E.	Grad	Chen-hsien, Chekiang, China
Choate, Dorothy Flood	1918 Ag	Romulus
Chobot, Edwin Frank	1921 C	Brooklyn
Chow, Yen Shuen	1919 A	Shanghai, China
Christensen, John	1918 A	Brooklyn
Christensen, Walter Carl	1921 C	Perth Amboy, N. J.
Christian, Cyrus Marvin	1919 A	Horseheads
Christian, Joseph Howard	1920 C	Millville, Pa.
Christianson, Raynard	1920 M	Butler, Pa.
Christie, Clyde	1919 L	Bergenfield, N. J.
Chu, Kea Hin	1919 M	Shasi, China
Church, Edith Holley	Spec Ag	Ithaca
Church, Elsie Sterling	1918 A	Ithaca
Church, Willard Ezra	Spec Ag	Canton
Churchyard, Elizabeth	1919 Ag	Buffalo
Cisler, Walker Lee	1921 M	Gradyville, Pa.
Claassen, Peter Walter, A.B., A.M.	Grad	Lawrence, Kan.
Clair, Harry Cornelius, jr.	1920 A	Portland, Ore.
Clapp, Mary Elizabeth	1921 A	Ithaca
Clarey, Harold Huber	1920 L	Sayre, Pa.
Clark, Charles Parsons, B.S.	Grad	Skaneateles
Clark, Helen Sophia	1919 Ag	Munnsville
Clark, James Edward	Spec M	Detroit, Mich.
Clark, John Griffith	1918 Ag	Fairport
Clark, Lee Hinchman	1918 A (Chem)	Brooklyn
Clark, Margaret Kimber	1919 A	Fulton
Clark, Marian Weller, B.A.	Grad	Los Angeles, Cal.
Clark, Marie	1919 Ag	Watkins
Clark, Marion Anna	1921 A	Warsaw
Clark, Roger Scureman	1920 A	Kingston, Pa.
Clark, Ruth Hunting	1920 Ag	Belleville
Clarke, Edwin Chauncey	1922 M	Kingston
Clarke, Warren Hines	1920 M	Baltimore, Md.

Clarkson, John Turner	1921 M	St. Louis, Mo.
Clary, Austin James	1920 A (Chem)	Waterloo
Clary, Thomas James	1920 A	Seneca Falls
Clay, George William, jr.	1921 M	New Orleans, La.
Clay, Leon Gibert	1920 C	New Orleans, La.
Clayton, John Middleton	1921 M	Little Rock, Ark.
Clements, Joseph Francis	1920 L	New York City
Clements, William Willis	1921 A	Devon, Pa.
Cleminshaw, William Holbrook, jr.	1919 M	Cleveland, O.
Clinton, Charles Lewis	1920 A	Ithaca
Clute, Howard Haswell	1920 M	Elmira
Coad, Anna Cecilia	1919 Ag	Brandywine, Md.
Coan, Abraham Moses	1920 Ag	Ithaca
Cockcroft, Katharine Emily	1918 A Grad	Upper Troy
Cockcroft, Merle Leslie	1920 A (Chem)	Northport
Cockran, Thomas Fletcher	1919 C	East Orange, N. J.
Coffin, Kenneth Ford	1919 Ar	Somerville, N. J.
Coggeshall, Henry Gerald	1921 M	Waterville
Coggeshall, Mary Merwin	1919 A	Utica
Cohen, Dudley Crawford	1918 A	Brooklyn
Cohen, Harold	1919 A	Rockville Centre
Cohen, Jacob	1920 C	New York City
Cohen, Jeannette	1919 A	New York City
Cohen, Julius, A.B.	Grad	St. Louis, Mo.
Cohen, Morris Gilbert	1919 C	Monticello
Cohn, Miriam Harriett	1920 Ag	Bath
Cohn, Philip, B.S.	1918 Ag Grad	New York City
Colby, Myron Edward	1919 A (Chem)	Gouverneur
Cole, Marjorie Edith	1921 Ag	Little Falls
Collacott, Robert Hover	1919 A	Painesville, O.
Collens, William S., B.S.	1921 M.D. (N. Y. C.)	Brooklyn
Collin, Henry Arthur	1918 M	Plattsburg
Collins, Alfred Stuart	1918 C	Buffalo
Collins, Anthony Henry	1919 M	Des Moines, Ia.
Collins, Edison Moore	1920 Ag	Livingston Manor
Collins, Harry	1918 A	Brooklyn
Collins, Marie Taylor, A.B., A.M.	Grad	Kansas City, Mo.
Collins, Wallace Hardison	1918 M	Tulsa, Okla.
Collum, Thad Lumpkin	1920 C	Corsicana, Tex.
Colony, Myron Wesley	1918 A (Chem)	Bronxville
Colsten, Alden	1921 Ag	New York City
Colsten, Ronald	1918 Ag	New York City
Coltman, William Pethick	1919 L	Peking, China
Colucci, Frank, A.B.	Grad	Holley
Colucci, Joseph	1921 A (Chem)	Holley
Colvin, William Henry, jr.	1920 A	Evanston, Ill.
Combs, William Charles	1921 L	Rochester
Comstock, William Mortimer	1920 C	Brooklyn
Conger, Sidney Barnett	1918 M.D. (N. Y. C.)	Newark, N. J.
Conklin, George Thomas	1922 M	Joplin, Mo.
Conklin, Henry Ernest, A.B., A.M.	Grad	Roslyn
Conklin, Ruth Daniels	1919 A	Joplin, Mo.
Conlan, Margaret Geraldine	1918 A	Johnstown
Conlin, William Jerome	1920 V	Glens Falls
Connolly, John Edwin	1921 Ag	Mt. Kisco
Connolly, Paul Tehan Ignatius	1918 V	Syracuse
Connor, Edwin Irving, jr.	1918 Ag	New Rochelle
Conover, Garrett Elliott	1921 C	Asbury Park, N. J.
Conroy, Mary Agnes	1919 A	Hilton
Constans, Frank Schille	1919 C	Chicago, Ill.
Conway, Stanley Thomas	1920 L	Cohoes
Cook, Adelaide Helen	1918 A	Washington, D. C.
Cook, Elizabeth Rose	1919 Ag	Albany
Cook, Florence Ethel	1918 A	Camden
Cook, James Richard	1920 C	Gloversville
Cook, Laura Clark	1920 A	Hillsdale, Mich.
Cook, Owen Shepard	1922 M	Marinette, Wis.
Cook, Robert Abele	1920 Ag	Washington, D. C.
Cooke, Carlton Perry	1921 A	Buffalo
Cooke, Cora Elizabeth	1920 Ag	Lyons Falls
Cooke, Gaylord Keel	1918 V	Ithaca
Coombe, Marion Gertrude	1921 Ag	Minersville, Pa.
Coombs, Samuel Meade, jr.	1920 A	Bridgeton, N. J.
Cooney, Anna Mary	1921 Ag	Malone
Cooper, Beatrice Jennie	1921 A	Torrington, Conn.
Cooper, Charles Henry	1920 A	Jersey City, N. J.
Cooper, Elizabeth Terry	1921 Ag	Mattituck
Cooper, Howard Newton	1920 M.D. (N. Y. C.)	Little Falls
Cooper, Jesse Sherwood	1920 A	Mount Vernon
Cooper, Lester Marcus	1918 Ag	Cortland

Cooper, Ray Simeon	1919 Ag	Wolcott
Cooper, Ray Sweet	1921 A	Horseheads
Cooper, Stuart William	1921 M	Houghton, Mich.
Cooper, William Miller	1921 M	Ithaca
Copp, Herbert Guy	1922 M	Rock Island, Ill.
Corbett, Frances Lee	1921 Ag	Watkins
Cordley, Christopher Minta	1919 A	Glen Ridge, N. J.
Corleis, Grace Henrietta	1918 A	Brooklyn
Cormack, Charles Marshall	1920 C	Buffalo
Cormack, Clarence Elphinstone	1918 A (Chem)	Silver Creek
Cornell, Nelson Warren	1918 A 1921 M.D.	Lockwood
Cornish, Ina May	1919 Ag	Ithaca
Cornwall, Esther	1921 Ag	South Wales
Cornwell, John Nevius	1920 Ag	Yorktown Heights
Cornwell, Ralph Thomas Kline	1918 A (Chem)	Northumberland, Pa.
Corrington, Julian Dana, A.B.	Grad	Ithaca
Cortese, Frank	1920 A (Chem)	Dunkirk
Corwin, Grace Huntington	1921 A	Riverhead
Corwin, Louis Alfred	1919 V	Richmond Hill
Corwith, William Henry	1919 L	Rockville Centre
Cosline, Hugh Lewis	1918 Ag	Springville
Cottle, Frances Marion	1919 A	Constable
Cotton, Dorothy Annie	1918 Ag	Ithaca
Cottrell, Edwin Harrison	1919 M	East Orange, N. J.
Couchman, Carl Spencer	1918 M	Chicago, Ill.
Coulter, Clarence Dally	1919 M	Oil City, Pa.
Coulter, Theodore Bryson	1922 M	Los Angeles, Cal.
Coupe, Florence Elizabeth	1919 Ag	Utica
Coursey, George Edwin	1920 A (Chem)	Ludlow, Ky.
Covey, Kenneth Sydney	1918 Ag	Oneonta
Coville, Katharine	1918 A	Washington, D. C.
Coville, Perkins	1918 Ag	Ithaca
Covington, William Slaughter	1921 L	Bowling Green, Ky.
Cowan, Ralph Waldo Emerson, B.S.	Grad	Beverly, N. J.
Cowdrick, Myrl	1918 A	Williamsport, Pa.
Cowhill, Clara Evelyn	1918 A	Brooklyn
Crabtree, James Britton	1921 Ag	New Brighton
Cracco, Frederick Anthony	1921 A	Jersey City, N. J.
Craig, Bentley LeVere	1920 Ag	Hamburg
Craig, Donald Keith	1921 M	Bernardsville, N. J.
Craig, Howard Reid, B.A., M.A.	1919 M.D. (N. Y. C.)	New York City
Craig, Roy Alexander	1921 M	Wilmington, N. C.
Crandall, Leonard Johnson	1921 A	Warren, Pa.
Crandall, Will Giles	1919 Ag	Ithaca
Crane, Clara Whitney, A.B.	Grad	Bridgewater, Mass.
Crane, Roderic Baird	1921 M	Omaha, Nebr.
Craver, Lloyd Freeman, A.B.	1918 M.D. (N. Y. C.)	Brooklyn
Crawford, John Crawford	1920 M	Erie, Pa.
Crawford, Robert Patterson	1921 M	Erie, Pa.
Creal, Harold Leroy	1919 Ag	Jamestown
Cresswell, Mae, B.A. in Ed.	Grad	Cedar Falls, Iowa
Crisfield, Richard Ilston	1921 M	Brooklyn
Crispell, Raymond Solomon, A.B.	1920 M.D. (N. Y. C.)	Kingston
Criswell, Howard Donald	1921 C	Washington, D. C.
Crocco, Walter Cyril	1918 Ag	Brooklyn
Cromelin, Paul Gustav, jr.	1921 A	Hackensack, N. J.
Cronk, Harold Waldo	1922 M	Toronto, Ont., Canada
Crosby, Birdina, B.S.	1918 M.D. (N. Y. C.)	Brocton
Cross, George Ernest	1919 M	Sterling, Pa.
Cross, Lowell Harold	1919 A	Sterling, Pa.
Crouch, Harold Harter	1920 A (Chem)	Mohawk
Crouch, Margaret Paine	1919 A	Syracuse
Crowley, Addison Gifford	1921 A	Randolph
Crowley, Katherine Elizabeth	1920 Ag	Canandaigua
Croxton, Albert Marion	1920 C	Arkadelphia, Ark.
Croxton, James McLain	1920 M	Massillon, O.
Cruickshanks, Fred	1918 V	Ferndale, Cal.
Crump, Brodie Strachan, B.S.	1918 A	Greenville, Miss.
Cubbon, Miles Hugo	1920 Ag	Pleasantville, Pa.
Cubillos, Ernesto	1921 Ag	Bogota, Colombia, S. A.
Cuervo, Isabel	1921 Ag	Ithaca
Cuffe, Frederick William	Spec M	Toronto, Canada
Culley, Paul Gamber	1921 A	Ithaca
Cundell, Henry Garrison	1921 M	Paterson, N. J.
Cunningham, Benjamin Amos, jr.	1921 M	Yonkers
Curphey, James Dodds	1920 A	Dayton, O.
Curran, Harold Raymond	1921 Ag	Buffalo
Curry, Aubrey Ramon	1920 M	Nassau, N. P., Bahamas
Curtis, Carol	1921 Ag	Rochester
Curtis, Egbert Townsend	1921 A	Spring Valley

Curtis, Eugene Alden	1921 Ag	Rochester
Curtis, George Graydon	1920 M	Rochester
Curtis, Walter Earle	1918 Ag	Telford, Pa.
Cushman, Dorothy Elizabeth	1921 Ag	Syracuse
Cushman, Howard Baker	1921 A	East Aurora
Cushman, Robert Alden	1921 M	Ithaca
Cushman, Steward Allerton	1919 Ag	East Aurora
Cusic, Anna Elizabeth	1919 Ag	Huntington
Cusick, James Thomas, B.S.	Grad	Ithaca
Cuthbert, William Earl	Spec	Ridgway, Pa.
Cutolo, Francis, jr.	1918 A	Jamaica
Cutter, Laurence Starr	1920 A	Cleveland, O.
Cymrot, Mark	1920 A	Brooklyn
Daily, Orville Guy	1920 A	Chicago, Ill.
Dale, Dwight Conn	1922 M	Franklin, Pa.
Daley, William Bell	1920 L	Chatham
Dalton, James Ward	1918 A	Gouverneur
Daly, Ivan Coakley	1921 A (Chem)	New York City
Dalzell, Edmund Carnwath	1921 M	Ben Avon, Pa.
D'Ambrosi, Faust	1921 A	New York City
Danker, Herbert Henry William	1921 Ag	New York City
Danzig, Abram Alison	1921 A	Albany
Darling, Lina Reeves	1919 Ag	Binghamton
Darrin, Anthon Forgeau	1918 Ar	Brooklyn
Dates, Hazel Adelia	1921 A	Groton
Dates, Helen Dorothy	1921 A	Groton
Davenport, Edward	1920 Ag	Accord
Davenport, Nellie	1921 Ag	Accord
Davidow, Morris	1918 Ag	Brooklyn
Davidson, Alexander George, B.S.	1920 M.D. (N. Y. C.)	New York City
Davidson, Andrew Curle	1921 A	Cooperstown
Davidson, Harry	1919 A	New York City
Davila, Rafael Miguel	1921 Ag	Brooklyn
Davis, Alfred Hale	1919 A	Roscoe
Davis, Asa	1918 Ag	Owego
Davis, Chester Coughran	1921 Ag	Castile
Davis, Daniel Beach	1920 M	Kingston, Pa.
Davis, Frank S. Black	1921 L	Cropseyville
Davis, Harold Grant	1920 A	Plainfield, N. J.
Davis, Henry Kennedy, A.B., A.M.	Grad	Newfield
Davis, Jacob Stanley	1921 Ag	Ithaca
Davis, Rebecca	1919 A	Port Henry
Davis, Rowland Fenner	1921 M	Herkimer
Davis, Thomas Wallis, B.S.	1919 M.D. (N. Y. C.)	Utica
Davis, William Frederick Russell	1921 L	Cayuga
Davison, Robert Otis	1921 M	Bath
Dawson, George Linton	1918 Ag	Geneva
Dawson, Lester Hansell	1919 A	Brooklyn
Dawson, Louis Welton	1919 L	Boonton, N. J.
Day, Ezra Haisey	1919 M	Wortendyke, N. J.
Day, Hazel Elizabeth	1921 A	Buffalo
Day, Helen Margaret	1919 A	Buffalo
Deagon, Arthur	1922 C	Freeport
Dean, Arthur Hobson	1920 L	Ithaca
Dean, Barclay Dayfoot	1921 A	Wrentham, Mass.
Dean, Edna Louise	1919 Ag	Ithaca
Dean, Louise True	1918 A	Ithaca
Dean, Marion	1921 Ag	Niagara Falls
DeBow, Hetty Woodward	1920 A	Bloomington, N. J.
DeBroske, Ethel Martha	1921 Ag	Yonkers
Dechert, Alvin William	1920 M	Buffalo
Decker, Ford Payne	1920 M	Elmira
Degling, Albert Otto	1920 C	E. Orange, N. J.
Dehner, Marie	1920 A	Westfield
Deitrick, Carroll Heiney	1921 M	Watson, Pa.
Deltz, Fordyce Charles	1919 Ag	Berne
DeLong, Homer Craig	1921 C	Trumansburg
Delzell, William Robert, A.B.	1918 M.D. (N. Y. C.)	Steven's Point, Wis.
Demaree, Chester Columbus, A.B.	Grad	Jamestown, Ind.
DeMott, Henry Vroom, B.S.A., M.S.A.	Grad	Metuchen, N. J.
Denneen, Edward Victor	1921 A	Buffalo
Densmore, Richard Douglass	1921 M	Erie, Pa.
Dent, Alberta	1920 Ag	Auburn
Denton, Clarence Sheldon	1918 Ag	Wingdale
DePue, Helen	1921 Ag	El Paso, Tex.
Derrick, Arthur Franklin	Spec Ag	Jordan
DeVany, Norma	1918 Ag	Ellenville
Devenbeck, Floyd Cornelius	1921 M	Herkimer
Dewey, Doris Bell	1921 A	Castile

Dewey, Hartley Greaves, B.S.	1918 M.D. (N. Y. C.)	Schenectady
Dewey, Robert Adelbert	1920 Ag	Jamestown
DeWitt, Madolin	1919 A	Lima
DeWolfe, Rachel Elizabeth	Spec Ar	Cortland
Dewson, Inglee Ball	1918 Ag	Maplewood, N. J.
von Deylen, Sophie Marie	1921 A	Brooklyn
Dial, Morse Grant	1919 M	Fargo, N. D.
Diamant, Joseph	1920 A (Chem)	New York City
Diamond, Benjamin	1919 A	New Brighton
Diamond, Joseph Henry	1919 A	New Brighton
Dibble, George Turner	1918 Ag	Lima
Dick, Michael	1921 M	New York City
Dicker, Edward Eugene	1919 L	Ithaca
Dickey, Marie Therese Genevieve	1918 A	Ithaca
Dickinson, John Leroy, jr.	1921 Ag	Hudson Falls
Dickson, Albert Charles	1920 L	Wilmington, Del.
Dickson, Charles Keith	1921 M	Montclair, N. J.
Dieckmann, Johanna Mary	1920 A	Buffalo
Diederichs, Hugo N.	1918 M	Dolgeville
Diefenbach, William Theodore, B.Chem.	1918 A Grad	Utica
Diehl, Leola Marvin	1918 A	Cresskill, N. J.
Diehl, Susan	1919 A	Schenectady
Diel, Agnes Catherine Elizabeth	1919 Ag	New York City
Dietrich, Charles William, jr.	1919 M	Brooklyn
Dietrich, Henry, B.S.	Grad	Schenectady
Dietzen, Hugh Nicholas	1921 Ag	Dunkirk
Dill, Florence Mary	1920 A	Buffalo
Dimelow, Grace Katherine	1920 Ag	Woodmere
Diment, Horace Kinney	1921 M	Oswego
Dimijian, Aram Houssig	1918 C	Adabazar, Turkey
Dimmick, Forrest Lee, A.B.	Grad	Ithaca
Dinge, Ferdinand Charles Frederick	1921 Ag	Newark, N. J.
Disbrow, Jayne	1921 A	Norwalk, Conn.
Dittmar, Albert Louis	1919 C	Williamsport, Pa.
Diven, Emerson Liscum	1920 A	Elmira
Divine, Walter Eber, B.S.	1918 M.D. (N. Y. C.)	Brooklyn
Doan, Joseph Ellsworth, jr.	1919 Ar	Coatesville, Pa.
Dockerill, Walter John	1921 Ag	New York City
Dodd, Wilson Farnsworth, Litt.B.	1920 M.D. (N. Y. C.)	Montclair, N. J.
Dodds, Dorothy Day	1920 A	Xenia, O.
Dodge, Emmet Harry	1921 M	Akron, O.
Dodge, Harold McKendree	1919 A	Rockland
Dodge, Loren Newell	1921 V	Moir
Dodge, Ruth Lucinda	1918 Ag	Massena
Dodge, Wilson Shannon	1921 M	Cleveland, O.
Dodson, DeWitt	1920 A	Buffalo
Doelling, Hans Alfred Adalbert	1920 A	New Rochelle
Doerr, Edwin Philip	1918 Ar	Chicago, Ill.
Dolson Guy Carleton Bayley	1918 A	New Paltz
Donahue, Mary Ellen	Spec Ag	Ithaca
Donlon, Joanna Margaret	1918 A	Utica
Donlon, Mary Honor	1920 L	Utica
Donnigan, Clarke Edward	1921 L	Alden
Dooley, James Leo	1921 V	Camillus
Doremus, Thomas Peter	1921 A	Red Bank, N. J.
Dorrance, Henry Turner	1920 A	Camden
Dorrance, Neil Hill	1918 A	Camden
Dorrance, William Henry	1922 Ar	Camden
Dorsey, Daniel Ambrose	1920 L	Towanda, Pa.
Dorsey, Jerry Spires	1921 A	Hico, Texas
Dougherty, Holden Manchester	1918 A	Evanston, Ill.
Doughty, John Cozine	1920 Ag	New York City
Douglas, Damon Greenleaf	1919 C	Jacksonville, Fla.
Douglass, Matthew Milith	1922 M	Buffalo
Douglass, Richmond, A.B.	1920 M.D. (N. Y. C.)	Shanghai, China
Douqué, Frances Gracia	1921 A	Herkimer
Dow, Allan Wade, jr.	1920 M	Brooklyn
Downey, John Charles	1921 A (Chem)	Corry, Pa.
Downing, Frank Guignon	1920 Ag	New York City
Downs, Lucibel Irving	1919 A	East Quogue
Downs, Sewell Henry	1920 M	Riverhead
Dragat, Edward Saul	1920 L	Hartford, Conn.
Drago, Louis	1919 A	Richmond Hill
Drake, Elizabeth Mary	1919 A	Brooklyn
Drake, Eugene Tolman	1921 Ag	Auburn
Drake, Frederic Dalton	1919 Ag	Buffalo
Drake, Milton Carey	1920 A	Friendship
Drake, Paul Woodhull	1921 Ar	Morristown, N. J.
Drake, Russell Raymond	1919 Ag	Dunkirk
Drake, Stanley Eugene	1921 M	Hawley, Pa.

Dresser, Ivan Chandler	1919 A	Ithaca
Dressor, John Fritz	1921 M	Watertown
Driscoll, Lucy Angela	1918 Ag	Ithaca
Dryer, Harwood Brownell	Spec Ar	Rochester
Du Bois, Lester Wells	1918 M	Brooklyn
DuBois, Raymond Van Orden	1920 Ag	Forest Glen
Du Cassé, Francis Kilian	1918 A (Chem)	New York City
Ducasse, Vidal	1920 C	Havana, Cuba
Duddy, Katharine	1921 Ag	Newark, N. J.
Duffies, Edward Lowe	1919 C	Washington, D. C.
Duffies, Stanley Brittain	1920 Ag	Washington, D. C.
Duke, Harold	1920 L	Wellsville
Du Mond, Frank Lee	1920 Ag	Kingston
Duncan, Albert Stanley	1922 M	Brooklyn
Duncan, Daniel Tompkins, B.S.	1918 C	Ninety-Six, S. C.
Duncan, Gilbert Wade	1919 M	Pittsburgh, Pa.
Duncan, Natalie Woodland	1920 Ar	Philipsburg, Pa.
Duncan, Walter Irving Lincoln	1920 Ag	New York City
Dunham, George Shellabarger	1922 M	Chicago, Ill.
Dunham, Norma Helen	1921 Ag	Liverpool
Dunlap, Vining Campbell, A.B., A.M.	Grad	Bowdoinham, Me.
Dunleavy, Joseph Dewey	1921 M	Denver, Col.
Dunn, Hazel Sarah	1919 Ag	Ithaca
Dunn, Percy Lawrence	1919 Ag	Ithaca
Durand, Walter Bates	1921 L	Manasquan, N. J.
Durfee, Dorothea Diana	1919 Ag	Ithaca
Durfee, Rufus Lee, A.B.	1920 M.D. (N. Y. C.)	Binghamton
Durham, George Eugene	1919 Ag	Carthage, Mo.
Duryea, Beatrice Louise	1918 Ag	Johnson City
Duryea, Garrett DeNyce	1921 A	Brooklyn
Dusham, Edward Henry, A.B., M.S.	Grad	North Andover, Mass.
Dusman, Gilbert Henry	1921 M	York, Pa.
Dyckman, Richard Pluymert	1919 A (Chem)	Orange, N. J.
Dye, Harry Wilmer, B.S. in Agr.	Grad	New Matamoras, O.
Dye, Joseph Alma, A.B.	Grad	Basalt, Idaho
Dye, Malvina Blanche	1921 A	Forestville
Dynes, Oliver Wesley, B.S., M.S. in Agr.	Grad	Ithaca
Eagle, Bryan Munroe	1919 Ag	Little Rock, Ark.
Eakle, Edward Harmon	1918 A	Washington, D. C.
Earle, Charles Bull	1919 A	Mount Vernon
Early, Edward Donald	1921 M	Chattanooga, Tenn.
Eastlack, Joseph O'Leon	1919 Ag	Woodbury Hts., N. J.
Eastman, Roger Gannett	1919 Ag	Belleville
Eaton, Frank Gertrude	1920 A	Harrison, Pa.
Echeverri-Ricardo Camilo	1921 A (Chem)	Bogota, Colombia, S. A.
Eckhardt, Albert John	1919 A	Woodhaven
Eddy, Allerton	1920 C	Canaan, Conn.
Edmonds, Eleanor Margaret	1921 A	White Plains
Edmunds, Robert Curliss	1918 C	Denver, Col.
Edsell, Ralph James	1921 A	Cedarhurst
Edson, Joseph Dickson	1920 Ag	Philadelphia, Pa.
Edwards, John Chubbuck	1920 A (Chem)	Oxford
Edwards, Marguerite Warren	1918 A	Patchogue
Edwards, Robert Burr	1919 A	Omaha, Nebr.
Egbert, John Peter	1918 Ag	Ithaca
Ehricke, Karl Nicholas	1918 Ag	Albany
Eidt, George Dewey	1921 M	New York City
Eiler, J. Scott	1920 Ag	Pittsburgh, Pa.
Eisenbeis, Herbert Oscar	1919 A	Pittsburgh, Pa.
Eisenbrandt, Alexander Schulz	1920 C	Baltimore, Md.
Eisenbrandt, Alice Alberta	1920 Ag	Mt. Washington, Md.
Eisenbrandt, Frederick Henry	1918 C	Baltimore, Md.
Eisner, Benjamin	1920 C	Trenton, N. J.
Eldridge, William Charles	1919 Ag	Takoma Park, D. C.
Elfenbein, Hiram	1921 A	Jersey City, N. J.
Elli, Eduardo Luis Enrique, A.B.	1921 M	Santiago del Estero, Argentine Rep.
Elliott, Basil Wheeler	1921 L	Tupper Lake
Elliott, Irving Miller	1920 M	Baltimore, Md.
Elliott, Martha Julia	1921 A	Ithaca
Elliott, Robert Drane, B.S. in E.E.	Grad	Corsicana, Tex.
Elliott, William Perry	1919 A	New Berlin
Ellis, William Douglas	1920 M	Atlanta, Ga.
Ellison, James McMechan	Spec Ag	Kirksville, Mo.
Ellsworth, Frank Harold	1921 A	East Chatham
Elmer, Charles Wellington	1919 A	Ithaca
Elsas, Norman Emerson	1918 M	Atlanta, Ga.
Ely, Esther Irene	1921 Ag	Poplar Ridge
Emanuel, Victor	1920 A	Dayton, O.
Emerson, Alfred Edwards	1918 Ag	New York City

Emerson, Thera	1920 Ag	Ithaca
Emerson, William Harolds	1921 C	Ithaca
Emmons, Lawrence Brasher	Spec Ar	Portland, Me.
Emmons, Ralph Lewis, A.B.	1919 L	Borodino
Engel, Edith Blanche	1921 A	Brooklyn
Engel, Samuel	1920 C	Brooklyn
English, Leah	1918 Ag	Ithaca
Eno, Gladys Rudd	1920 A	Elmhurst
Ensworth, George Frederick	1919 M	Westfield, Mass.
Eppenstein, James Franks	1919 A	Elgin, Ill.
Erickson, Eric Sigfred	1922 M	Brooklyn
Erickson, Lawrence, B.A.	Grad	Litchfield, Minn.
Erskine, Alice Hill	1921 A	New Brighton
Erskine, Archibald Mortimer, B.Chem.	Grad	Ithaca
Eschweiler, Carl Ferdinand	1918 Ar	Milwaukee, Wis.
Estabrook, Kenneth Charlie	1920 Ag	Newfield
Estes, Wellborn	1920 A (Chem)	St. Louis, Mo.
Estey, Stephen Merritt	1922 M	Manlius
Esty, Charles Glenn	1919 M	Belleville
Etz, Katharine	1918 Ag	Hornell
Etzkowitz, Jennie Grace	1921 Ag	New York City
Evans, Asher Ward	1921 Ag	Newark Valley
Evans, Earl Radford	1919 M	Great Barrington, Mass.
Evans, Frederic Charles	1919 M	Great Barrington, Mass.
Evans, Llewelyn Price	1920 Ag	Cassville
Evans, Russell Beaumont	1918 Ag	Paterson, N. J.
Evarts, Howard Mortimer	1919 M	Buffalo
Everett, Oliver Elmore	1921 Ag	Nichols
Everitt, William Littell	1920 M	Peekskill
Everitt, William Wilson	1921 M	West Haven, Conn.
Everts, Frank Orthwein	1920 M	St. Louis, Mo.
Ewald, Henry, jr.	1920 L	Jersey City, N. J.
Ewing, Edward Raymond	1919 M	Norwichtown, Conn.
Ewing, James Allen	1919 L	Youngstown, O.
Eyrich, Paul Reber	1920 M	Phoenixville, Pa.
Faber, Henry Alonzo Monford	1919 A	Jamaica
Fairchild, Frank Earle	1921 M	Brooklyn
Fairfax, Charles Crittenden	1920 M	Geneva
Falconer, Frank Miller	1921 A	Jamestown
Falconer, Robert Brown	1921 M	Jamestown
Fang, Sze Voo, B.S.	Grad	Tai, China
Faris, Edwin Lloyd	1918 M	Brooklyn
Farley, Margretta	1919 Ag	Campbell Hall
Farley, Stephen Raymond	1918 Ag	Oxford
Farley, Theodore Sumner	1921 M	Lockport
Farnham, Marshall Evarts, B.S.	Grad	Dunkirk
Farnsworth, Clarkson Lewis	1921 M	Huntington
Farr, Archie Keith	1921 A	Osborn Bridge
Farr, Muriel Eldra	1920 A	Osborn Bridge
Farrell, Mark Walter	1918 M	Brooklyn
Farrington, William Jennison	1921 M	New York City
Faulhaber, Ethel	1920 Ag	Tuckahoe
Fay, Alfred Lester	1920 C	Longmeadow, Mass.
Fayer, Charles	1920 Ag	Elmhurst
Fearing, Ashton Cushing	1920 Ag	New Rochelle
Feehan, Arthur Joseph	1919 Ag	Ithaca
Feehan, Hugh Vincent	1921 Ag	Ithaca
Feeley, Le Grand	1921 L	Lenox, Mass.
Feitelberg, Abraham	1919 A	New York City
Feldbaum, Max	1918 Ag	Spotswood, N. J.
Feldman, Samuel	1920 A	Brooklyn
Feldsine, William Carroll	1920 Ag	Poughkeepsie
Fellows, Haynes Harold, A.B.	1918 M.D. (N. Y. C.)	Troy
Felmer, Calvin Douglas	1921 L	New York City
Felter, Robert Kenneth	1920 A	Pearl River
Fender, Constance Stone	1919 Ag	New York City
Fennell, Mary Katherine	1918 Ag	Clifton Springs
Fenner, Gertrude Elizabeth Southworth	1921 A	Holley
Ferguson, Alan Fletcher	1921 Ag	Middletown
Fernandez, Manuel José	1921 M	New York City
Fernschild, Edward Berent	1919 Ag	New Rochelle
Ferris, Seymour Washington	1921 Ag	Hunter
Fertel, Arthur	1920 C	Brooklyn
Fiedler, George Henry	1921 M	Rochester
Field, Byron Kenneth	1919 Ag	Port Richmond
Field, Malcolm Hinrichs	1918 Ag	Brooklyn
Fields, Frank Van Duzer	1918 C	Binghamton
Finch, Katharine	1918 A	Ithaca

Finch, Ray McAlpine	1918 Ag	Rock Stream
Fincher, Myron Gusten	1920 V	Corfu
Fine, Abraham	1919 A	Brooklyn
Finegan, Louis Anthony	1918 A	Brooklyn
Fingado, Gustav Albert	1922 M	New York City
Finkelstein, Alfred Lewis	1920 L	Waterbury, Conn.
Finkelstein, Benjamin	1918 V	Brooklyn
Finkelstein, Harold Byron	1921 A	Wellsboro, Pa.
Finkelstein, Henry Leon	1921 L	Ithaca
Finkelstein, Merwin Jesse	1919 A (Chem)	Wellsboro, Pa.
Finkernagel, William Edward	1920 M	New York City
Finklestein, Joseph George	1918 A	Albany
Finn, Thomas David, jr.	1920 C	Exeter, N. H.
Finneran, J. Leo	1918 Ag	North White Lake
Fisch, Samuel Thomas	1921 Ag	New York City
Fischer, Alfred Elias	1919 A	New York City
Fischer, Charles William	1920 Ag	Atlantic City, N. J.
Fish, Elinor Mary	1919 A	Ithaca
Fisher, Clyde Olin, A.B., A.M.	Grad	Gatesville, N. C.
Fisher, Daniel Carl	1919 Ag	Clarence
Fisher, Donald	1919 M	Weedsport
Fisher, Douglas Alan	1920 A	Philadelphia, Pa.
Fisher, Harold Snedaker	1920 C	Buffalo
Fisher, John Edward	1918 C	Ithaca
Fisher, Leicester Wright	1919 A	Huguenot Park
Fisher, Marion Cornelia	1919 A	Ithaca
Fisher, Mary Jones, A.B., A.M.	Grad	Greensboro, Md.
Fitz, Henry Irving	Spec M	Peconic
Fitzgerald, Donald Duncan	1918 M	Roscoe
Fitzgerald, James Bradford	1921 L	Roscoe
Fitzgerald, James William	1918 C	Clayton
Fitzpatrick, Paul Early	1921 C	Buffalo
Flanner, Philip Douglas	1919 Ag	Blackwell, Wis.
Flannery, Joseph Michael	1918 V	Saratoga Springs
Fleck, Jesse Warren	1922 C	New York City
Fleckenstein, Raymond Herbert	1921 A (Chem)	Ellenville
Fleet, Florence Perrott	1921 A	Huntington
Fleming, Howard Fordham	1918 V	Walden
Fleming, John Rimer	1921 Ag	Brooklyn
Fletcher, Irving John	1920 M	New Britain, Conn.
Flint, Amy Louise Lord	1920 A	Ithaca
Flint, Joseph Howard	1920 A (Chem)	Athens
Flint, Mary Gilmore	1920 Ag	Farmington, Me.
Flockhart, Marguerite Craig	1918 A	Newark, N. J.
Florence, Laura, M.A., B.S., M.A.	Grad	Aberdeen, Scotland
Florsheim, Harold Milton	1920 A	Chicago, Ill.
Fogelman, Samuel Snayor	1921 A	Passaic, N. J.
Fogg, Russell Harding	1920 Ag	Toledo, O.
Foglesong, John Edward, B.A., M.A.	Grad	Ithaca
Foord, James Alfred, B.S., M.S.A.	Grad	Amherst, Mass.
Foot, Eleanor Margaret	1921 A	Lockport
Forbes, Wilbur Jameson	1921 Ag	Colebrook, N. H.
Force, Albert William	1920 Ag	Ithaca
Ford, David Cooley	1920 A (Chem)	Ashtabula, O.
Ford, Harold Willis	1921 M	Belleville, N. J.
Ford, Mary Ellen	1919 A	Belfast
Forrester, Edgar Lincoln	1918 Ag	Ogdensburg
Forster, Murrill Hamilton	1921 C	Buffalo
Fortier, Ernest Cleveland	1918 C	Washington, D. C.
Fortune, Ethel Margaret	1920 Ag	Malone
Foster, Edgar Wolcott	1920 M	Rutherford, N. J.
Foster, Florence Meritt, A.B.	Grad	Buffalo
Foster, Jennie Martha Guthrie	1918 L	Portsmouth, O.
Foster, Ruth	1920 A	Central Park
Foster, Winslow	1921 Ag	New York City
Fowler, Almon James	1919 Ag	Wyoming, Pa.
Fox, De Forest Eben	1919 A	Worcester
Fox, Jeannette Minnie Meyerowitz	1919 A	Buffalo
Fox, Theresa Anna	1921 A	Buffalo
Fraats, Helen Maisie	1921 Ag	Sharon Springs
Fraleigh, Percy Austin, A.B.	Grad	Poughkeepsie
France, Morris Giles	1920 Ag	Seward
Francis, Howard Nelson	1921 L	Canastota
Franco, Carlos Gonzaga	1922 M	Sao Paulo, Brazil
Frank, Harold Jerome	1921 A	Ogdensburg
Frank, Jacob Lyall Louis	1920 Ag	Buffalo
Frankel, Vincent Sydney	1921 A	Cleveland, O.
Franklin, Paul Benjamin	1920 A	New York City
Fraser, Cuthbert Bancroft	1919 Ag	Buffalo
Fratanduono, Frank Anthony, jr.	1920 M	Philadelphia

Freedman, Louis	1918 A	Sea Cliff
Freeman, Ralph Francis	1921 M	Mendham, N. J.
Freeman, William Roland Miller	1918 Ag	Carthage
Fröhse, Bertha Kathryn	1918 A	Westfield
French, Lewis Miller	1921 Ag	New Orleans, La.
French, Thomas Morton, A.B.	1920 M.D. (N. Y. C.)	Jamaica
French, Walter Hoyt	1919 A	Oak Park, Ill.
French, William Gilmore	1918 Ar	Jamaica
Frenkel, Leo Samuel	1918 A	New York City
Frenzel, Otto Nicholas, jr.	1921 L	Indianapolis, Ind.
Freston, Julian Maxwell	1920 A	Milton-on-Hudson
Freund, Gustave Louis	1918 A (Chem)	New York City
Freund, Regene	1920 L	New York City
Frey, John Jacob	1921 M	Hammondsport
Frick, Edwin Jacob	1918 V	New York City
Friderici, Edwin Daniel	1918 A	Amsterdam
Friderici, Kenneth Schuyler	1920 V	Amsterdam
Frieberg, Nelson Rudolph	Spec M	Swartwood
Friedland, David	1921 Ag	Brooklyn
Friedlander, Frank Victor	1918 A (Chem)	New York City
Friedlich, Robert Emanuel	1920 M	Brighton
Friedman, William Edward	1921 A (Chem)	Brooklyn
Friedrich, John Charles	1919 M	Red Wing, Minn.
Fries, Madeline	1918 A 1921 M.D.	Brooklyn
Fries, Margaret Evelyn, B.A.	1920 M.D. (N. Y. C.)	New York City
Frischman, Arthur	1918 A	New York City
Fritz, Eduard, jr.	1920 C	Poughkeepsie
Fritz, Horace Harper, jr.	1921 A	Philadelphia, Pa.
Fritzsche, Alfred Louis, jr.	1921 Ag	Cleveland, O.
Frosch, Valerie Elfrieda	1919 A	Herkimer
Frost, Walter Sprague, B.S.	Grad	Ithaca
Fry, Miles William	1920 Ag	Ephrata, Pa.
Fuchs, Fred	1920 M	Brooklyn
Fuchs, Nathaniel	1919 A (Chem)	Brooklyn
Fuller, Avery Edward	1921 C	Holley
Fuller, Dain Depew	1921 A	Winnetka, Ill.
Fuller, Harold Bentley	1919 Ag	Greene
Fuller, James Ellsworth	1920 Ag	East Hartford, Conn.
Fuller, James West	1920 V	Springville
Fuller, Robert Wesley	1918 V	Cuba
Fullington, Benjamin Warder	1921 L	Columbus, O.
Fulton, Elizabeth Mills	1918 A 1921 M.D.	Massena
Funnell, Esther Hawley	1919 Ag	Huntington
Gabeff, Angel	1918 Ag	Tirnovu, Bulgaria
Gaccione, Anthony Salvator	1921 A	Kingsland, N. J.
Gaehr, Paul Frederick, A.B., A.M.	Grad	Ithaca
Gaertner, Henry Arthur	1918 M	New York City
Gaffron, Carl William	1920 C	St. Louis, Mo.
Gage, George Raymond, B.S., M.S.	Grad	Atlantic City, N. J.
Gage, William Alexander	1918 Ag	Johnsonville
Gager, Howard Winthrop	1920 M	Columbus, O.
Gelbreath, Mitchell Tift	1922 M	Brooklyn
Gale, Mary Janet	1920 A	Groton
Gale, William McClure	1921 M	New York City
Gallagher, Dean Hasbrouch	1921 M	Syracuse
Gallagher, Donald Campbell	1921 A	O'Neill, Nebr.
Galland, Walter Isaac, A.B.	1920 M.D. (N. Y. C.)	Wilkes-Barre, Pa.
Gallivan, Peter Coleman	1921 A (Chem)	Buffalo
Gallman, Waldemar John	1921 A	Wellsville
Gamble, Dean, B.S.	Grad	Ithaca
Gandia, Hector	1919 M	Toa Baja, Porto Rico
Gard, Clifford Rohr	1919 A	Wichita, Kan.
Gardner, Esther	1921 A	Endicott
Gardner, William Hemstreet	1921 M	Oak Park, Ill.
Garside, Charles Clifford	1921 L	Meriden, Conn.
Garton, Benjamin Philip	1922 M	Jersey City, N. J.
Garver, Paul Leslie	1918 M	Springfield, O.
Gary, Carroll Andrew	1921 M	Roswell, N. Mex.
Gately, Lewis Brown	1921 M	Brooklyn
Gates, Edward Crossett	1921 M	Crossett, Ark.
Gauger, William Henry	1920 A (Chem)	Buffalo
Gaus, Albert Reinhard	1921 M	Pittsburgh, Pa.
Gautier, José Benitez	1921 C	Santurce, Porto Rico
Gawne, Spenser Stranahan	1920 A	Cleveland, O.
Gebhard, John Charles	1919 C	New York City
Geer, Raymond Harold	1919 A	Highland Park, Ill.
Geiger, Davis Earl	1920 A	Ashland, Ky.
Geisenhoff, Ruth Rebecca	1920 Ag	Oneida
Ge.b, Maurice, B.S.	1920 M.D. (N. Y. C.)	New York City

Gennis, Milton H.	1921 M	Dolgeville
George, Eleanor Miller	1920 Ag	Freeville
Georgia, Frederick Raymond, B.Chem.	Grad	Ithaca
Gerber, Helene Adele Henriette	1919 A	Stapleton
Gerber, Marian	1920 A	Philadelphia, Pa.
Gerhard, Elizabeth Hill, A.B., A.M.	Grad	Lancaster, Pa.
Gerken, Edward Ridley	1920 M	Brooklyn
Gerlach, Otto Emil	Spec Ag	Brooklyn
Gerould, Walter Blakesley	1921 A	Evanston, Ill.
Gershberg, Benjamin	1921 A	Albany
Gershel, George Falk	1922 M	New York City
Gershovsky, Hyman William	1918 V	New York City
Gershoy, Alexander Morris	1918 Ag	New York City
Gershoy, Leo	1919 A	New York City
Gibb, John Collins	1921 M	Ithaca
Gibbons, Lois Oliphant, A.B., M.A.	Grad	Philadelphia, Pa.
Gibbs, Helen Louise	1918 Ag	Ithaca
Gibbs, Roy Delbert	1921 Ag	Ellensburg Center
Gibson, Arthur Edward	1918 Ag	Brooklyn
Gibson, Irene Mildred	1918 A	Holley
Gifford, Grace Melissa	1918 A	Ithaca
Gifford, James Parsons, A.B.	Grad	White Plains
Gilbert, Alexander Joseph	1918 Ag	Ogdensburg
Gilbert, Winifred Davis	1918 Ag	Elmira
Gilchrist, Raleigh, A.B. in Chem.	Grad	Great Falls, Mont.
Gilkey, Gladys Fay	1919 A	Ithaca
Gill, John, 7th	1921 Ag	Haddonfield, N. J.
Gill, Nellie Frances	1919 A	Scranton, Pa.
Gillam, Gertrude Asenathe	1919 A	Lockport
Gilleran, William James	1918 L	Ellenville
Gillespie, George Earl	1919 A	North Tonawanda
Gillett, Ida Jane	1919 Ag	Colden
Gillett, Maurice Edwin	1920 C	Niagara Falls
Gillett, Roy Lewis, B.S.	Grad	Colden
Gillette, Kenneth Gordon	1921 M	Grahamsville
Gilligan, Eugene Francis	1919 L	Freeport
Gilligan, Eustace Gabriel	1922 Ar	Yonkers
Gilman, Charles Frank	1918 Ag	Ithaca
Gilman, Joseph Thayer	1920 M	Cambridge, Mass.
Gilmartin, Daniel Thomas, jr.	1918 A	Westfield, N. J.
Gilmore, Albert Vernon	1921 L	Rockaway Beach
Gilmour, Madeline Fay	1920 A	Vernon
Gilroy, Walter Emmet	1918 V	Plattsburg
Ginsburg, Samuel, B.S.	Grad	Brooklyn
Girdner, Adela Overton	1918 A	New York City
Girdner, Mary Evelyn	1919 A	New York City
Glaser, Jerome	1919 A	Sayre, Pa.
Glasier, Helen Hawley	1920 Ag	Warsaw
Glasser, Benjamin Frank	1920 A (Chem)	New York City
Glathe, Henry Bernhard	1921 M	Brooklyn
Gleason, Charles Richard	1921 A (Chem)	Van Wert, O.
Gleason, Josephine Mixer, A.B.	Grad	North Adams, Mass.
Glenn, Thaddeus Lamar	1918 V	York, S. C.
Glick, Harry Naylor, A.B.	1920 M.D. (N. Y. C.)	Woodbine, N. J.
Glotzer, Harry Eli	1921 L	Hartford, Conn.
Glotzer, Isadore	1921 L	Hartford, Conn.
Godfrey, Lydia Lorinda	1921 A	Trumansburg
Goessling, Albert Alston	1921 M	Staten Island
Gold, Harry	1919 A	Schenectady
Goldberg, Elias	1920 A	Petrograd, Russia
Goldberg, Emil	1921 A	Brooklyn
Goldberg, Jacob	1921 Ag	Brooklyn
Goldberg, Jacob Samson, A.B	1918 M.D. (N. Y. C.)	New York City
Goldberg, Joseph	1919 A	Brooklyn
Goldberg, Louis	1918 Ag	Brooklyn
Goldberg, Samuel	1919 Ag	Brooklyn
Goldman, Meyer	Spec Ag	Ithaca
Goldowitz, Herman Nathan	1921 L	Port Chester
Goldstein, Bessie	1918 A	Buffalo
Goldstein, Joseph	1918 C	New York City
Goldstein, Lemuel Caro	1918 A 1921 M.D.	New York City
Goldstein, Morris Charles	1920 A	New York City
Goldstein, William	1921 Ag	Brooklyn
Goltz, Hilda Lee	1921 A	Buffalo
Gomez, Angel Kaingal, D.V.M.	Grad	San Rogue, Cavite, P. I.
Gonzales-Rubio, Felix, jr.	1920 A	Guayaquil, Ecuador, S. A.
Gonzalez, Farino Ernesto	1921 Ag	Mexico, D. F.
Gonzalez, Paulino Joseph	1918 Ag	Chihuahua, Mexico
Good, Herbert Franklin	1921 M	Dayton, O

Goodman, Arthur	1921 A	New York City
Goodwin, Christine Mary	1918 Ag	Berwick, Me.
Gordon, Chauncey Jerome	1919 A	Brooklyn
Gordon, James Rufus	1919 A	Chappaqua
Gordon, Myron Alexander	1921 A	Sharon Springs
Gorke, Frederick Kenneth	1920 Ag	Syracuse
Gorman, Clarence John	1921 L	Pulaski
Gorton, Raymond Vaughn	1918 V	Binghamton
Gosline, Mary Helen	1918 A	Aurora
Gotsdanker, Morris	1919 A	Brooklyn
Gotthoffer, Nathan	1921 A (Chem)	New York City
Gottschalk, Louis	1919 A	Brooklyn
Gould, Alan Jenks	1921 Ag	Elmira
Gould, Clifford Morton	1918 A	Horseheads
Gould, DeWitt Clinton	1920 Ag	Newark
Gove, Richard Everest	1920 A	Peru
Graber, Charles Emmet	Spec Ar	Dayton, O.
Graeser, Albert Clarence	1918 A	Charleston, S. C.
Graham, Benjamin Sanborn	1921 A (Chem)	Brooklyn
Graham, Edna Olnier	Spec Ag	Rochester
Grahn, Paul Serfass	1921 Ag	Albany
Grandin, Louise	1918 A	Westfield
Grantham, Guy Everett, A.B., A.M.	Grad	Ithaca
Grantz, Walter Anton Henry	1919 C	Brooklyn
Granville, Grace Madaline	1919 A	Ithaca
Gratrick, Cora Jane, Pd.B.	1918 A	Medina
Graves, William Brooke	1921 A	Gouverneur
Gray, Donald McKinstry	1919 Ag	Hudson
Gray, Dorothy Millen	1918 Ag	Billings, Mont.
Gray, Edward Elisha, jr.	1922 M	Plano, Ill.
Gray, Laura Winifred	1919 A	Troy
Gray, Linsley Shepard	1921 Ag	Plano, Ill.
Gray, Nathan	1920 A	Amsterdam
Gray, Ralph	1920 C	Maine
Gray, Russell Warren	1921 Ag	Greene
Green, Andrew Haswell	1919 Ag	Chicago, Ill.
Green, Eustace Edward, jr., A.B.	1918 Ag	Macon, Ga.
Green, Irene Ella	1919 A	Philadelphia, Pa.
Green, Robert Sylvester	1919 Ag	Brooklyn
Greenawalt, Hilda Louise	1919 Ag	Denver, Colo.
Greenberg, Henry Wolfe, A.B.	Grad	Flushing
Greenberg, Isadore	1920 C	Myerstown, Pa.
Greenberg, Isidore Irving	1919 Ag	New York City
Greenberg, Samuel Charles	1919 C	Brooklyn
Greene, Harry Robert	1918 V	Solvay
Greene, Lewis	1920 A (Chem)	Brooklyn
Greenland, Cyril Walter, B.Sc.	Grad	Toronto, Ont., Can.
Greenlaw, Joseph James	1921 A	Titusville, Pa.
Greenwood, William Barton	1919 Ag	Forestville, Md.
Greil, Roman Jacob	1920 A	Montgomery, Ala.
Grider, Alexander T. Honaker	1920 M	Ithaca
Griffin, Clement Leroux	1920 A (Chem)	Stamford, Conn.
Griffin, Edna Mae	1918 Ag	Ithaca
Griffin, Frank Alexander	1920 A (Chem)	Stamford, Conn.
Griffin, Mary Hulda	1920 Ag	Richmond Hill
Griffith, Allyn Edward	1922 C	Phelps
Griffith, Dorothy Elizabeth	1918 A	Chicago, Ill.
Griffith, Walter Davis	1922 M	Youngstown, O.
Griffiths, Jeanne May	1921 Ag	Union Springs
Grigson, William Herbert	1920 Ag	Westfield, Pa.
Grimes, Esther	1918 Ag	Philadelphia, Pa.
Grimes, Marcia	1918 Ag	Philadelphia, Pa.
Grinnell, Harold Clayton	1919 Ag	Broadalbin
Grinnells, Claude Delbert	1918 V	Stewart, Minn.
Griswold, Arthur Stewart	1921 M	Rocky Hill, Conn.
Griswold, Demetrius Wilbur	1921 M	Port Clinton, O.
Griswold, Grace Hall	1919 Ag	Grand Rapids, Mich.
Grosklaus, Olive	1918 A	Jersey City, N. J.
Grove, J. Nelson	1921 A	Williamsville
Grow, Harold Jennings	1918 M	East Orange, N. J.
Guentert, Leo	1919 Ag	Utica
Guest, Wesley Tate	1922 M	Silver Creek
Guggenheim, Jack Albert	1918 A	Cincinnati, O.
Guile, Harold Bush	1921 Ag	Utica
Guiles, Marion Hitchcock	1920 Ag	Elmira
Gumaer, George Stuart	1921 A	Weedsport
Gumboldt, Frank William	1921 C	Katomah
Gurnee, John Rogers	1920 L	Haverstraw
Gurwitz, Benjamin Harrison	1920 A	Brooklyn

Gustin, Daniel Snyder	1919 A (Chem)	Johnstown
Gutierrez, Eduardo Alonso	1921 Ag	Merida, Yuc., Mexico
Gutierrez y Sanchez, Raul	1921 M	Havana, Cuba
Gutmann, Elsie	1920 Ag	Brooklyn
Haber, Vernon Raymond, B.S., M.A.	Grad	Rosburg, O.
Hadaway, William Stratton	1920 M	Montgomery
Haddaway, Arthur Sherman	1921 A	Fort Worth, Texas
Hagadorn, Maria Louise	1918 A	Canajoharie
Hagan, William Arthur, D.V.M.	Grad	Ithaca
Hagerman, Dudley Barnc	1918 Ag	Southold
Hagstrom, Gosta William	1918 Ar	Jamestown
Hahn, Ray Lester	1921 Ag	Atwater
Haines, George, B.S.	Grad	Pleasantville
Haines, Mary Troth, B.A.	1921 Ag	Moorestown, N. J.
Hale, Charles Brockway	1920 A	Herkimer
Hale, Maurice Perkins	1919 Ag	Schenectady
Haley, Francis Ambrose	1919 C	Watertown
Hall, Agnes Nelson	1921 A	Lockport
Hall, Francis Cayzer	1920 M	Duluth, Minn.
Hall, Gladys Marie	1920 Ag	Oneida
Hall, Hazel Jean	1919 A	Ridgway, Pa.
Hall, Ina Winning	1918 A Grad	New York City
Hall, Lincoln Norcott	1919 Ar	Chicago, Ill.
Hall, Maynard Erwin	1919 M	Gloversville
Hall, Walter Jay	1921 V	Monroe
Haller, Casper Paul	1921 M	Herkimer
Hallinan, Joseph Daniel, M.D.	Spec M.D. (N. Y. C.)	Richmond Hill
Hallman, Margaret Lucile	1921 Ag	Pittsburg, Pa.
Hallock, James Russell	1922 M	Milton-on-Hudson
Hallock, William Henry	1920 A	New York City
Halperin, Herman	1920 M	Hamilton, O.
Halsey, Crawford Cook	1918 M	Southampton
Ham, Eugene, jr.	1920 Ag	Verbank
Ham, John Frederick	1918 Ag	Millbrook
Hamblen, Lucy Malinda	1919 A	Castile
Hamburger, Louise Margaret	1919 Ag	White Plains
Hamilton, Clyde Carney, B.S., M.S.	Grad	Haswell, Colo.
Hammett, Waldo Bertram	1920 Ag	Portland, Me.
Hammond, Arthur Kenley	1921 A	Ithaca
Hammond, Girard	1918 Ag	New York City
Hammond, Howard James	Spec Ag	Corry, Pa.
Hammond, Maynard Charles	1919 Ag	Port Jervis
Hammond, Reginald Gower	1920 M	Chicago, Ill.
Hancock, Alfred Graham	1920 Ag	Hamburg
Hancy, Anna Jane, A.B., A.M.	Grad	Hayts Corners
Hand, Leslie Townley	1918 A	Brooklyn
Handwerger, Harry	1918 M	Baltimore, Md.
Hankins, Francis William	1919 M	Auburn
Hannigan, James	1921 C	Forty Fort, Pa.
Harber, Abraham Roscoe, B.S.	1920 M.D. (N. Y. C.)	New York City
Harbers, Helene Gerda	1920 A	Brooklyn
Harden, James Joseph Henry	1919 Ag	Brooklyn
Hardy, John Everett	1920 A	New York City
Haring, Delos Walker	1921 A	Buffalo
Harlan, Clara May, A.B., A.M.	Grad	Indianapolis, Ind.
Harlow, Willis Young	1921 M	Hempstead
Harmon, Glenn Douglas	1921 V	Savannah
Harper, Grant	1921 M	Glencoe, Ill.
Harrah, Frank West, A.B.	1920 M.D. (N. Y. C.)	Parlett, O.
Harrington, Carlos Elmer	1918 M	Buffalo
Harrington, Francis Louis	1922 M	Buffalo
Harrington, Harold Ray	1921 C	Utica
Harrington, Norman Spencer	1921 M	Buffalo
Harris, Charlotte	1921 Ag	Castile
Harris, Dorothy Margaret	1919 A	Ithaca
Harris, Francis Livingston	1920 L	Chicago, Ill.
Harris, Marjorie Silliman, B.A.	Grad	Wethersfield, Conn.
Harris, Meyer Mathews, B.S.	1920 M.D. (N. Y. C.)	New York City
Harris, William Abraham	1918 Ag	Pittsburgh, Pa.
Harrison, Bernard James	1920 C	Brooklyn
Harrison, Ethel Ray	1920 A	Philadelphia, Pa.
Harrison, Galen Butts	1920 Ag	Oneonta
Harrison, William, jr.	1919 A	Duluth, Minn.
Hart, Charles Whittlesey, jr.	1920 Ag	Ithaca
Hart, Paul Richmond	1921 A (Chem)	Franklin, Pa.
Harter, William Wells	1921 Ag	Parish
Hartley, Helen Hoffman	1921 Ag	Mehoopany, Pa.
Hartman, Henry Eugene	1919 Ag	New York City
Hartman, Scott Woodring	1920 Ag	Sayre, Pa.

Hartmayer, Herbert William Keating	1920 C	Buffalo
Hartt, Harold Arthur	1920 A (Chem)	Ravena
Hartzell, Corinne	1919 A	Buffalo
Harvey, Herbert	1921 M	Hasbrouck Heights, N. J.
Harvith, Sophie Harriett	1918 A	Albany
Hassan, Emin	1919 Ag	Brooklyn
Hasselbeck, Eugene Joseph	1919 A (Chem)	Buffalo
Hatch, Arthur William	1920 A	New York City
Hathaway, Henry Bixby	1921 M	Easton, Md.
Hatz, Bernard	1921 A (Chem)	Brooklyn
Haueisen, Batist Ritzinger	1922 C	Indianapolis, Ind.
Hauser, Edwin Toal, A.B.	1921 M.D. (N. Y. C.)	New York City
Havens, Walter Kenneth	1919 M	Southampton
Havey, Joseph Perry	1920 M	Yonkers
Hawks, Kenneth Neil	1919 A	Glendora, Cal.
Hawley, Chauncey Baldwin	1921 A	Ansonia, Conn.
Hawley, Lily	1920 A	Brooklyn
Hayes, George DeNise	1921 C	Olean
Hayes, John William, B.S. in Chem.	Grad	Solvay
Hazell, Cyril Ebenezer	1920 M	Alpena, Mich.
Hazen, Christina	1920 A	Ithaca
Hazen, Ruth Irene	1918 Ag	Ithaca
Hazlett, Robert Wilbur	1921 M	Wheeling, W. Va.
Hazzard, Gertrude Curtis	1921 A	Hancock
Heald, Willard Richardson	1918 M	Wilmington, Del.
Healey, Lolita Evelyn, A.B.	Grad	Ithaca
Healy, James Hopkins	1918 Ag	Sherrill
Heard, Randolph Alfred	1921 Ag	Ithaca
Heartfield, Seth Wallace	1919 A	Newburgh
Heath, Elfreda Curtis	1920 A	Green Island
Heath, Morgan Lewis	1921 M	Jamestown
Hebert, Walter Jones	1921 L	Hot Springs, Ark.
Hedgcock, Elaine Ruthe	1920 A	Takoma Park, D. C.
Hedger, George Andrews, A.B.	Grad	Salt Lake City, Utah
Heertje, Jeanette	1919 A	New York City
Heidenheim, Rosalind	1918 A	Brooklyn
Heine, Paul, jr.	1919 Ag	Tompkinsville
Heitmann, Claus Ferdinand	1918 A	Brooklyn
Helms, Orland Edward	1920 V	Randolph
Hemmer, Andrew Joseph	1920 A (Chem)	Syracuse
Hemphill, Rayburn Weeks	1919 M	Akron, O.
Hemphill, Raymond John	1919 A (Chem)	Jamestown
Hendel, Julius	1920 Ag	Oneida
Henderson, Earl Garrett	1918 M	Columbus, O.
Henderson, Lulu Elsie	1921 A	Walton
Hendrickson, John Bertram	1920 M	Ridgewood, N. J.
Hendrie, Charles Francis	1919 M	Brooklyn
Hendryx, Dwight Bushnell	1920 M	Ithaca
Hendryx, Harriet Evelyn	1920 Ag	Ithaca
Henigbaum, William Klemm	1919 M	Davenport, Ia.
Hennessey, Paul Keeley	1921 A (Chem)	Binghamton
Henry, Frank Charles, jr.	1918 A 1921 M.D.	Perth Amboy, N. J.
Henry, Frederick Thomas	1920 C	Canandaigua
Henry, George Leigh	1920 A	Lebanon, N. J.
Henry, Lucien Reinhart	1919 A (Chem)	Pittsburgh, Pa.
Henry, Mary Francis, A.B.	Grad	Ithaca
Henry, Sadie Elise	1919 A	Brooklyn
Hequembourg, Arthur Williams	1919 M	New York City
Hequembourg, Edward Grant	1921 M	New York City
Herben, George Foster, B.S.	1921 M.D. (N. Y. C.)	Westfield, N. J.
Herbert, Paul Anthony	1921 Ag	New York City
Herbert, Thomas Francis	1921 A	Newburgh
Herbstman, Joseph	1919 Ag	Brooklyn
Herman, Abraham	1919 C	New York City
Herman, William Pierce	1919 A	Newark, N. J.
Hermann, Charles Edward	1921 C	St. Louis, Mo.
Hermann, Harold Bernard	1921 A	New York City
Hernandez, Julio	1918 Ar	Cardenas, Cuba
Hernandez-Orpi, Enrique	1918 C	Camajuani, Cuba
Herr, Joseph	1918 Ag	Brooklyn
Herr, Walter Frederick	1921 Ag	New York City
Herrick, Gladys Ethel	1920 Ag	Tunkhannock, Pa.
Herrick, John Knapp	1918 Ag	Kingston
Herrick, Marvin Theodore	1921 A	Ithaca
Herriman, Morris Whitney	1919 C	River Forest, Ill.
Herrington, Wilson Andrew	1919 Ag	Ellisville, Miss.
Herskowitz, Louis	1918 M	New York City
Hertig, Marshall, B.S.	Grad	Minneapolis, Minn.
Herz, Monroe	1920 M	Elmhurst
Herzig, Alfred Sebastian	1921 Ag	Brooklyn

Hespelt, Ernest Herman, A.B., A.M.	Grad	Johnstown
Hess, Casselman Ben	1920 M	Rochester
Hess, Helen Marguerite	Spec Ag	Lyons Falls
Hettich, Ernest Leopold	1919 A	Ridgefield Park, N. J.
Hettinger, Harold Ingersoll	1920 C	Freeport, Ill.
Heuer, Fred Henry	1918 Ag	Bay Shore
Heuser, Gustave Frederick, B.S., M.S. in Agr.	Grad	Buffalo
Hevey, Mary Duddy	1918 Ag	Gloversville
Hewes, Edward Blaine	1919 Ag	Mayville
von Heygendorff, Leo	1920 Ag	New York City
Hickey, James Francis	1921 A	Ithaca
Hicks, Byron	1920 A	Cedarhurst
Hiebeler, George Edward	1918 Ag	Woodside
Hieber, Dorothy Barbara	1920 A	Utica
Hieber, Evelyn Margaret Caroline	1918 A	Utica
Higgins, Charles Wilcox	1921 L	Montezuma
Hill, Boyd Tinsley	1920 Ar	Freeport, Ill.
Hill, Leland Halsey	1921 M	Ozone Park
Hill, Phillip Synyer	1918 M	Oak Park, Ill.
Hill, Roland Hurdon, A.B.	Grad	St. Louis, Mo.
Hill, William Holcombe	1921 M	Hopewell, N. J.
Hillas, James Garniss	1919 Ag	West Hoboken, N. J.
Hillidge, Marcia Marie	1920 Ag	Front Royal, Va.
Hills, Mildred Frances	1918 Ag	Mt. Vernon
Hilmer, Hermann, A.B., A.M., Ph.B.	Grad	Ithaca
Himwich, Harold Edwin, B.S.	1919 M.D. (N. Y. C.)	New York City
Hinchman, William Rossiter	1918 M	Brooklyn
Hine, Willard Rudolph Bernard	1919 Ag	Gloversville
Hinrichs, Albert Ford	1920 A (Chem)	Glen Ridge, N. J.
Hinrichs, Louis Harold	1920 A (Chem)	Glen Ridge, N. J.
Hinsdale, Ira Alfred, Ph.B.	1919 M.D. (N. Y. C.)	Camillus
Hirsch, Albert, M.D.	Spec M.D. (N. Y. C.)	New York City
Hirsch, Emanuel	1920 C	Amityville
Hirsch, Eric Donald	1921 A	Memphis, Tenn.
Hirschberg, Leon Frederick	1920 A (Chem)	Brooklyn
Hirschfeld, Bernard Jonas	1918 A	Southampton
Hirsh, Ben Walter, jr.	1920 A	Memphis, Tenn.
Hiscock, George Singleton	1919 C	Southampton
Hitchcock, Deborah Victoria	1921 A	Philadelphia, Pa.
Hitchcock, Howard Harvey	1921 C	Honolulu, Hawaii
Hitchcock, Raymond Owen	1920 A	Lyons
Ho, Yun Huang, A.B.	Grad	Wuchang, China
Hoag, Harold Brown	1921 A	La Grange, Ill.
Hoag, Isabelle Marguerite	1918 Ag	Deposit
Hoagland, Donald	1920 Ag	Bridgeton, N. J.
Hoagland, Richard Kucher	1918 A	Brooklyn
Hobart, Alfred Logan	1921 M	Springfield, Mass.
Hochman, Samuel	1919 Ag	New York City
Hock, Charles Albert	Spec Ar	Dayton, O.
Hodgkinson, Francis Piercy	1921 M	Pittsburgh, Pa.
Hoeck, George Worcester	1919 A	Cincinnati, O.
Hoel, Archie Bernhard, B.A.	Grad	Menomone, Wis.
Hoerle, John Miller	1921 M	Brooklyn
Hofeller, Neville Kaiser	1920 C	Buffalo
Hoff, Trygve Waldemar	1921 C	Upper Montclair, N. J.
Hoffman, Arthur Lewis	1918 Ag	Elmira
Hoffman, Calista Jane	1918 Ag	Lewiston
Hoffman, Edward Joseph	1921 A	Frankfort
Hoffman, Harry Brooks	1919 Ag	Elmira
Hoffman, Israel Kenneth	1921 M.D. (N. Y. C.)	Passaic, N. J.
Hoffman, Phoebe Doris, A.B.	1920 M.D. (N. Y. C.)	Bloomington, Ind.
Hoffnagle, Harry Herbert, B.A.	1919 L	Westport
Hofmann, George Robinson	1918 M	Pittsburgh, Pa.
Hofstatter, Earl Stetson	1921 L	Nyack
Hogan, John Meredith	1921 L	Taylorville, Ill.
Hogg, Edith Esther, B.S.	Grad	Titusville, Pa.
Hoisington, Louis Benjamin, B.A.	Grad	Eugene, Ore.
Holbrook, John Knight, jr.	1920 A	Ithaca
Holderman, William Frederick	1921 Ag	New York City
Holland, Robert Thomas, M.A.	Grad	Scottsville, Ky.
Hollenbeck, Beatrice Sarah	1918 Ag	Candor
Hollis, John Coonley	1919 L	Concord, Mass.
Hollis, William Carroll	1921 Ag	New York City
Holmes, Jean Dalziel, A.B.	Grad	Washington, D. C.
Holmes, Percy Robert	1920 M	Warwick
Holmwood, Harry Freeman	1920 Ag	Orchard Park
Holsapple, Alethe Alida	1918 A	New York City
Holsted, Milo Ernest, A.B.	1920 M.D. (N. Y. C.)	Wheaton, Ill.
Holstrom, Benjamin Franklin	1921 A	St. Paul, Minn.
Holt, Thomas Baird	1918 C	Ithaca

Holt, Walter Coler	1921 Ag	Port Richmond
Holtje, Emma Evelyn	1921 A	Bay Shore
Holton, Frank Carey, B.S. in M.E.	1918 M	Danville, Va.
Holzberger, Walter Scott	1921 A (Chem)	Hamilton, O.
Homan, Carroll Livingston	1919 M	Sayville
Hood, Harrison Porter	1918 A (Chem)	Pittsburgh, Pa.
Hood, Thomas Stanley	1922 C	Indianapolis, Ind.
Hooker, Harry Merle	1921 Ag	Findley Lake
Hooker, Russell Olin	1920 A	Watertown
Hoover, Charles Emanuel	1919 A	Timberville, Va.
Hoover, Helen Grace	1921 A	Uniontown, Pa.
Hoover, Maurice Jackson, jr.	1920 M	Wyncote, Pa.
Hopkins, Alice Mary	1921 A	New Hartford
Hopkins, Isabel	1918 A	Westfield
Hopkins, Phelps Alvin	Spec Ag	Pittsford
Hopkins, Willard Douglas	1920 Ag	Youngstown
Horrell, Stephen Byrd	1921 M	Pasadena, Cal.
Hormann, Curt August	1921 A	New York City
Horton, Edith Dudley	1921 A	Ithaca
Horton, Edward Kenneth	1921 A	Whitehall
Hoskins, Frederic Martin	1919 L	Lyons Falls
Hoskins, Lansing Southwick	1920 L	Seneca Falls
Hosmer, Harriett	1918 A 1921 M.D.	Buffalo
Hotchkiss, Edna Ruth	1919 A	Ithaca
Hotson, Clarence Paul	1918 Ag	Brooklyn
Houck, Robert Charles	1921 A (Chem)	Honeoye Falls
Hough, Floyd Woodworth	1919 C	Catskill
Houghton, Paul Roswell	1918 V	Fine View
Houghton, William McKinley	1919 Ag	Oneonta
Houk, Gerald Bravo	1920 Ar	Owego
Houston, Ira Harold	1920 Ag	Goshen
Howard, Edwin Laclede	1919 Ar	Ithaca
Howard, Edwin Lawrence	1920 Ag	Youngstown
Howard, Harry Irving	1919 L	Washington, D. C.
Howay, Johannes Edward	1919 Ag	New York City
Howe, Raymond Kellogg	1919 A	Yonkers
Howe, Thomas Miller	1919 M	Cincinnati, O.
Howell, Charles James, jr.	1919 C	Camillus
Howell, Eric Vail, C.E.	Grad	Southampton
Howell, Henry Elmer	1920 M	Philadelphia, Pa.
Howell, Jessie Everts, B.S.	Grad	Elmira
Howlett, Freeman Smith	1921 Ag	Knowlesville
Hoyt, Floyd Erwin	1918 V	Clay
Hoyt, Mary Katherine	1921 A	Cohocton
Hoyt, Nelson Landon, jr.	1920 A	Winnetka, Ill.
Hsu, Kwung	1918 M	Wusih, China
Huang, Chia-Chi, B.S. in C.E.	Grad	Canton, China
Hubach, Fred Fisher	1919 A (Chem)	Elizabeth, N. J.
Hubbard, Waldron Wells	1919 Ag	Flushing
Hubbell, Benjamin S., jr.	1919 Ar	Cleveland, O.
Huber, Walter	1919 A	Locust, N. J.
Hudders, James Henry	1920 M	Utica
Hudes, Frederick	1918 Ag	Brooklyn
Huelsen, Walter August	1918 Ag Grad	Brooklyn
Huestis, John Phelps	1921 M	Greencastle, Ind.
Huestis, Thomas Bunting	1919 M	Greencastle, Ind.
Huff, Fleta Wenona	1921 Ag	Ithaca
Hugg, Ivalo Belle	1918 Ag	Cazenovia
Hugger, Albert Joseph	1921 C	Ridgewood
Hughes, Gertrude	1921 Ag	Ithaca
Hughes, John Ackerman	1921 A	Ridgewood, N. J.
Hughes, Martin Collins, B.S. in E.E.	Grad	Berwyn, Ill.
Huhn, Constance	1919 A	Brooklyn
Huie, Helen	1920 A	New York City
Hulbert, Thorne Comings	1920 A (Chem)	Ithaca
Humphrey, Helen Harmon, B.A.	Grad	Claremont, Cal.
Humphrey, Richard Frederick	1920 A	Waterbury, Conn.
Hunkin, Alger Eugene	1920 M	Cleveland, O.
Hunkin, Milward Stafford	1920 C	Cleveland, O.
Hunt, George E.	1918 V	Binghamton
Hunt, Isaac Burton, M.D.	Spec M.D. (N. Y. C.)	Washington, D. C.
Hunt, John Bartlett	1921 Ag	Unadilla
Hunt, Walter Harold	1920 Ag	Dryden
Hunter, Egerton Kaye	1920 Ar	Detroit, Mich.
Hunter, John Charlton	1920 A	Fulton
Huntington, Lowell Shirley	1919 Ag	Oneonta
Huntley, Wesley Yeomans	1918 Ag	Walworth
Hurst, Elmer Travis	1922 M	Wyoming
Hust, Floyd Philip	1918 V	Jeffersonville
Huszagh, Ralph Donald	1920 Ar	Chicago, Ill.

Hutoryansky, Godel, B.S.	1921 M.D. (N. Y. C.)	New York City
Hyatt, James Mead	1918 A	Owego
Hyde, Stuart Noble	1921 A (Chem)	Elmira
Hyslop, George Hall, A.B., A.M.	1919 M.D. (N. Y. C.)	New York City
Iberico, Juan Resurreccion	1918 Ag	Yurimaguas, Loreto, Peru
Iler, Russell Hills	1920 A	Brooklyn
Imperato, Pasquale Joseph, jr., B.S.	1921 M.D. (N. Y. C.)	Brooklyn
Infanger, Adolph Omega	1919 C	Brooklyn
Ingalsbe, Maurice Parley	1918 L	Oakfield
Inglee, Charles Ruthford	1918 Ag	Amityville
Ipark, William Washington	1921 Ag	Brooklyn
Irish, Marian Louise	1920 A	Auburn
Irish, Shurly Russell	1918 M	Auburn
Irvin, George Samsell	1921 Ag	Fairmont, W. Va.
Irwin, James Joseph, jr.	1921 A	Oyster Bay
Isbills, Edmond Geery	1920 L	Bayonne, N. J.
Israel, Jacob Gerreson	1920 A	Tonawanda
Ives, Roger Leete, jr.	1920 Ag	Stillwater
Jackson, Abram John, jr.	1918 V	Ithaca
Jackson, Ethel Violet	1918 A	Cresskill, N. J.
Jackson, George Andrew	1922 M	Huntington
Jackson, Howard Campbell, B.S.	Grad	Ithaca
Jackson, Jerome Jacob	1920 A	New York City
Jackson, Stuart Deming, A.B.	Grad	Cincinnati, O.
Jackson, William Joseph, A.B.	1919 M.D. (N. Y. C.)	New York City
Jacob, Silvester Arthur	1920 A	New York City
Jacobovitz, Samuel	1921 M	Brooklyn
Jacobs, Miles Richard	1921 Ag	Ithaca
Jacobsen, Max Samuel	1921 Ag	Brooklyn
Jadowitz, David	1919 A (Chem)	Dover, N. J.
Jagger, Seth Ransom	1921 A (Chem)	Flushing
James, Harold Robertson	1921 A	Brooklyn
James, William Benjamin, jr.	1920 C	Plymouth, Pa.
Jampol, Max	1919 M	New York City
Janes, Lester Babcock	1922 M	Cleveland, O.
Janes, Warham Whitney	1919 A	Rochester
Jarka, Clement Alphonsus, A.B.	1921 M.D. (N. Y. C.)	Mt. Carmel, Pa.
Jenanyan, Helene Juhar	1918 A	Fresno, Cal.
Jenkins, Du Bois	1918 V	New Paltz
Jenkins, Erwin Wheat	1918 Ag	Sidney Center
Jenks, Harland William	1919 A	Niagara Falls
Jenness, James Russell, S.B.	Grad	Chrisman, Ill.
Jennings, Arthur Gardner	1918 M	Elmira
Jennings, John Arthur	1918 L	Rochester
Jennings, Marguerite	1919 A	Canastota
Jensen, Ward Charles, B.S.	Grad	Omaha, Nebr.
Jepson, Mabel Sophie	1920 A	Buffalo
Joffrion, Doris Kernan, B.A.	Grad	Marksville, La.
Johnson, Alberta	1920 Ag	Old Westbury
Johnson, Bruce	1919 M	Binghamton
Johnson, Carl Victor	1919 Ar	Hartford, Conn.
Johnson, Clarence	1920 Ag	Canandaigua
Johnson, Davies	1920 L	Camden
Johnson, Deyo Way	1920 A	Ellenville
Johnson, Douglas Harold	1921 A (Chem)	New York City
Johnson, Ernest Edward	1920 A	St. Louis, Mo.
Johnson, Malcolm Blake	1920 C	Cleveland, O.
Johnson, Miriam Louise	1921 A	Bellefontaine, O.
Johnson, Roger Charles	1922 M	Canandaigua
Johnson, Samuel Chester, A.B.	1918 M.D. (N. Y. C.)	New York City
Johnson, Walter Lee, jr.	1918 M	St. Louis, Mo.
Johnston, Dorothy Shapel	1921 A	Philadelphia, Pa.
Johnston, Edwin	1920 A	Cortland
Johnston, Helen, B.S.	1919 M.D. (N. Y. C.)	Columbus Junction, Iowa
Johnston, Roy Campbell	1920 V	Livingston Manor
Jomo, Joseph	1922 C	Chrome, N. J.
Jones, Gwendolyn Hope	1918 A	Oradell, N. J.
Jones, Howard Charles	1921 M	Rochester
Jones, Merton Wurke	1921 A	Ithaca
Jones, Miriam Catharine	1918 Ag	Worcester
Jones, Naomi Cecelia	1920 Ag	Worcester
Jones, Ralph Felber	1919 M	Red Wing, Minn.
Jones, Warren Herbert	1921 M	Arverne
Jones, William Belcher	1922 M	Greenwich, Conn.
Jones, William Milne	1918 C	New York City
Joseph, Louis Weinman	1920 C	Warrensburgh
Josephson, Emil	1921 C	Buffalo

Joyce, John Berry, B.S.	Grad	Brady, Texas
Joyce, Thomas Bernard, A.B.	1920 M.D. (N. Y. C.)	New York City
June, Laurence Brigham	1919 A	Addison
Kahn, Laskar	1921 L	Pueblo, Colo.
Kaiser, Louis	1921 L	Newark, N. J.
Kaltenthaler, Henry Jacob, jr.	1919 M	Philadelphia, Pa.
Kaminsk, Edith	1921 A	Philadelphia, Pa.
Kammerer, Frederick Stanley	1921 M	Staten Island
Kane, Francis Richard	1921 A (Chem)	Canastota
Kaplan, Martha	1920 A	Brooklyn
Kaplan, Maurice	1920 Ag	Brooklyn
Kaplan, Robert	1920 A (Chem)	Brooklyn
Kaplowitz, Morris	1918 A	Brooklyn
Karg, William Earnest	1920 M	Mt. Holly, N. J.
Karp, Theodore Burton	1919 A	Brooklyn
Karr, Harold Joseph	1918 Ag	Bloomfield, N. J.
Karrakis, Samuel	1918 A	Newark, N. J.
Karsten, Charles	1918 A	Highland Falls
Karsten, Henry	1921 M	Highland Falls
Katz, Samuel Elias, A.B.	1921 M.D. (N. Y. C.)	Jersey City, N. J.
Kaufman, Aaron	1919 A	Elizabeth, N. J.
Kaufman, Charles, B.S.	1921 M.D. (N. Y. C.)	Brooklyn
Kaufman, Samuel	1919 C	New York City
Kaufman, Samuel	1919 Ag	New York City
Kaufmann, Victor Rossman	1918 L	New York City
Kaulfuss, Harold Peter	1918 A	Glens Falls
Kavaler, Samuel, B.S.	1921 M.D. (N. Y. C.)	Brooklyn
Kavana, Luke James	1920 Ar	LaGrange, Ill.
Keady, Howard Patrick	1921 L	Brooklyn
Kear, Edward Burrow	1920 L	Yorktown Heights
Kearns, Wilfrid McDonnell	1920 M	Rochester
Keeler, Clarence Raymond	1921 Ag	Malone
Keeler, Lansing Herman	1921 A	Brooklyn
Keet, Julia Mildred	1919 Ag	Schuyler Falls
Kehm, Horace Stevens	1921 M	Chicago, Ill.
Keiper, Elisabeth	1921 A	Rochester
Kelchner, Sara Arabelle	1919 Ag	Annville, Pa.
Keller, Bert Dewey	1920 M	Rochester
Keller, Harold Parker	1920 A	Buffalo
Kelley, Francis Michael	1918 V	Phelps
Kelley, Hayward Kendall	1920 C	Cleveland, O.
Kelly, Charles McFarland	1921 A (Chem)	Elmira
Kelly, Emerson Crosby	1921 A	Fleischmanns
Kelly, Thomas Lloyd	1920 A	Chicago, Ill.
Kelsey, Alpha Mary	1919 A	Mecklenburg
Kelsey, Martha Townsend	1919 A	Mecklenburg
Kenah, Roland Miner	1921 M	New Brighton, Pa.
Kendall, William Morgan	1919 A	Buffalo
Kenerson, Royal Stone	1921 Ag	Ithaca
Kennedy, Frank Atkinson	1919 A	Fort Sam Houston, Texas
Kennedy, Harvey Thomas	1921 A (Chem)	Penfield
Kennedy, James Arthur, A.B.	Grad	Dannemora
Kennedy, Marion Frances	1921 Ag	Ithaca
Kennedy, Robert Charles	1921 C	Penfield
Kennedy, Roy James	Spec M	Penfield
Kennedy, Thomas Walker	1920 M	Pittsburgh, Pa.
Kennell, Lester Spruce, A.B., A.M.	Grad	Rochester
Kephart, Barbara	1921 Ag	Ithaca
Kephart, Margaret	Spec Ag	Ithaca
Kerr, William Thompson	1919 L	North Tonawanda
Kessel, Marcel Hartwig	1921 A	Buffalo
Kesselovitz, Max, B.S.	1921 M.D. (N. Y. C.)	New York City
Kessler, Henry Howard	1919 M.D. (N. Y. C.)	Arlington, N. J.
Kevelson, Max	1920 M	New York City
Kezer, Claude Allen	1921 Ag	Massena
Kiggins, Willard Augustus, jr.	1921 A	Elizabeth, N. J.
Kilborne, Charles Lucius	1920 Ag	Moravia
Kimbell, James Fraser	1921 M	Los Angeles, Cal.
Kimberly, Arthur Myndert, A.B.	1918 M.D. (N. Y. C.)	New York City
Kincaid, Margaret, A.B.	Grad	Brooklyn
Kinde, Doris Alice	1920 Ag	Canandaigua
King, Charles Harold	1920 A	Stockbridge
King, Fred Gray	1921 V	Oriskany Falls
King, Mark, jr.	1921 M	New York City
King, Theodore Franklin, jr.	1920 M	Chattanooga, Tenn.
King, Walter Gray, jr.	1921 A (Chem)	New York City
Kingery, Lisle Byron, A.B.	1918 M.D. (N. Y. C.)	Tilden, Nebr.
Kinney, Harold Draper	1918 A (Chem)	Gouverneur
Kinsel, Irene Dorothy	1920 A	Saratoga Springs

Kinsman, Daniel Francis	1920 Ag	Greene
Kinsman, Elmer Franklin	1920 Ar	Binghamton
Kintner, Fred J.	1921 Ag	Ithaca
Kintner, George Hartley	1921 Ag	Ithaca
Kinzinger, Margaret Alice	1919 A	Brooklyn
Kircher, Stacy George	1918 Ag	Mount Vernon
Kirk, Samuel	1921 A	Tyrone, Pa.
Kirkendall, John Swartout, jr.	1921 Ag	West Danby
Kirkland, Joseph Brachin	1918 Ag	Ithaca
Kirkwood, Margaret Jean	1921 Ag	West Pittston, Pa.
Kitchin, Gladys	1919 Ag	Salem
Kittredge, Linus Emerson	1920 M	Lockport
Klaw, Abel	1920 L	Fairmont, W. Va.
Klee, Victor LaRue, A.B.	1918 L	Olean
Kleegman, Sophia Josephine	1921 A	New York City
Klein, Charles	1921 A (Chem)	Rockaway Beach
Klein, Henry Nathaniel	1919 Ag	Brooklyn
Klein, Hyman	1920 A	Brooklyn
Kline, Arnold Manuel	1920 A (Chem)	Hudson
Kline, Emil	1920 A	Hudson
Klingelhofer, Louis Oliver	1919 M	Pittsburgh, Pa.
Knapp, Carlton Warren	1921 L	Forestville
Knapp, Dwight Rufus, A.B.	1921 M.D. (N. Y. C.)	Danbury, Conn.
Knapp, Margaret Collins	1919 A	Marcellus
Knapp, Perley Mason	1921 Ag	Colebrook, N. H.
Knapp, Robert Davidson	1919 Ag	Preble
Knauss, Edwin	1920 M	Poughkeepsie
Knauss, James Owen, B.A., A.M.	Grad	State College, Pa.
Knauss, Walter Paul	1921 Ag	Poughkeepsie
Knettles, John Prescott	1921 Ag	South Lansing
Knight, Frank Perkins, jr.	1920 Ag	Manchester, Mass.
Knight, Geoffrey	1920 Ag	Fanwood, N. J.
Kniskern, Margaret	1918 Ag	Deposit
Knowles, Marion McNeil	1920 A	Lockport
Knowlton, Frank Lester	1918 Ag	Laurel, Md.
Knox, Charles Webster	1921 Ag	Brooklyn
Knox, Leila Charlton, B.A.	1918 M.D. (N. Y. C.)	Conklin
Kobuskie, Agnes Marie	1920 A	Gloversville
Koch, Dorothea	1920 L	New Dorp
Koch, John Hosack	1921 L	Wheeling, W. Va.
Koehler, Alfred Charles	1919 M	New York City
Koehler, John Henry August	1921 C	Rockville Centre
Koehler, Milton Alphonse	1921 Ag	Lynbrook
Kohl, Walter Fred	1921 Ag	North Tonawanda
Kohli, Chet Ram	1921 A (Chem)	Jammu, Kashmir, India
Kohm, Alfred Edmund	1921 M	Ithaca
Kolb, Gladys Dutton	1918 A	New York City
Komp, William H. Wood, B.Sc., M.Sc.	Grad	Metuchen, N. J.
Korb, Le Roy Hauck	1919 A (Chem)	Newark, N. J.
Kouwenhoven, Adrian Suydam	1922 M	Huntington
Krahe, Herbert	1921 Ag	New York City
Krahe, Lawrence Carl Rubsam	1921 Ag	New York City
Kramer, Paul Harris	1918 A (Chem)	Gaylord, Mich.
Kranz, Harry Thompson	1920 L	Hot Springs Ark.
Kraus, Albert Abraham, B.S.	Grad	New Brighton
Kraus, Frederick	1918 Ag	New York City
Krauss, Richard Parmely	1921 A	Cleveland, O.
Krauskopf, Daniel Melvin	1920 L	New York City
Krauss, William Ernest	1921 Ag	Brockport, N. J.
Krey, Charles Edward	1919 Ag	Washington, D. C.
Krey, Genevieve Eleanor	1920 A	Brooklyn
Kribs, Charles Lovell, jr.	1920 A	Dallas, Tex.
Kroener, Rose Courtney	1919 L	Ithaca
Krogmann, John Henry William	1920 L	Brooklyn
Kroin, Harry Essler	1920 A	Brooklyn
Krum, Olin Clifford, B.S.	Grad	Ithaca
Ku, Chen	1918 M	Peking, China
Kuchler, Henry Christian Carl	1918 A	New Rochelle
Kugeman, William Emil, jr.	1921 M	Cornwall, Conn.
Kuhn, George Henry	1922 M	Pittsburgh, Pa.
Kühner, Anna Elizabeth, A.B.	1920 M.D. (N.Y.C.)	New York City
Kuhns, Herbert Rhoads	1918 M	Dayton, O.
Kuhrt, William Joseph	1920 L	Forestville
Kuo, Cheng-Chih	1918 M	Shanghai, China
Kuo, Yang Mo, A.T.E.C.	Grad	Wusih, China
Kurcias, Max	1918 C	New York City
Kurtz, Chester Allen Rock	1919 M	Center Hall, Pa.
Kurzman, Melville	1919 Ag	New York City
Kwaan, Hon-Kwong	1919 M	Hankow, China

Kwei, Ming-Sin	1921 M	Manila, P. I.
Kwit, Morris	1921 Ag	Brooklyn
Lacey, Harold Talbot	1920 A (Chem)	Binghamton
Lackmann, Luella Irene	1919 A	Troy
Lacy, Leslie Verne, B.Arch.	Grad	Skaneateles
Ladd, Era Amos	1919 A	Batavia
Ladd, Tallman	1921 A	Ithaca
Ladu, Roscoe Nelson	1918 Ag	Watervliet
La Fever, Mortier Wickham	1919 Ag	Corning
Lagerquist, Joseph Albert	1921 L	Brooklyn
La Grange, DeWitt	1918 V	Schenectady
Laird, John Evans	1919 C	Freehold, N. J.
Lake, Irma	1918 Ag	Oswego
Lake, Michael	1919 A	New York City
Lalley, Harold Vincent	1919 A	Bridgeport, Conn.
Lallou, George Edward Spotz,	1920 C	Philadelphia, Pa.
La Mont, Mildred Flora	1920 Ag	Hemlock
Lamoureux, Mabel	1919 Ag	Ithaca
Lamoureux, Vincent Branner	1920 C	Ithaca
Lamphier, Louise Lyman	1918 A	Torrington, Conn.
Lande, Harold Julian	1921 M	Buffalo
Landron, Enrique, jr.	1920 Ag	Arecibo, P. R.
Landy, Abraham, B.S.	1920 M.D. (N. Y. C.)	New York City
Lane, Frederic Chapin	1921 Ag	Cambridge, Mass.
Lane, John Frederick	1919 Ag	Port Richmond
Lang, John Robert Andrew, jr.	1921 M.D. (N. Y. C.)	Mt. Vernon
Langdon, Helen Cornelia	1919 Ag	Utica
Lansdale, Mary Elizabeth	1921 A (Chem)	Plainfield, N. J.
Lansing, Arthur Cornelius	1921 A (Chem)	Cambridge
Lape, Frederick Henry	1921 A (Chem)	Esperance
Lapin, Joseph Harris	1920 A (Chem)	New York City
Lardner, Gilmore Anthony	1920 M	Rock Island, Ill.
Large, Edward Wilson	1920 A (Chem)	West Collingswood, N. J.
Larkin, John Vincent	1920 Ar	Ithaca
Larkin, Leo Joseph	1920 A	Ellenville
Larrabee, Callie Hamm	1921 M.D. (N. Y. C.)	Frankfort, Me.
Larrabee, Edwin Stevens	1919 Ag	Binghamton
Larson, John Munson	1919 Ag	Caldwell, N. J.
Lasher, Richard Earl	1919 M	New Hartford
deLaski, Edgar Gustave, A.B.	Grad	Weehawken, N. J.
Lasky, Solomon	1921 M.D. (N. Y. C.)	New York City
Lason, Helen Jane	1920 A	Homer
Lassiter, Lelia Hamilton	1918 A	Petersburg, Va.
Lathrop, Frances Ann	1921 Ag	Angelica
Latta, John Stephens, A.B.	Grad	College Corner, O.
Latz, Lawrence Morris	1920 M	New York City
Lau, Kwai Cheuk	1918 A	Hong Kong, China
Lau, Lo Naam	1919 A	Hong Kong, China
Laubengayer, Albert Washington	1921 A (Chem)	Schenectady
Loughlin, John	1920 V	Akron
Lauritzen, John Irwin, B.S.	Grad	Ithaca
Lauter, Kurt Corell	1920 A	Brooklyn
La Ware, Edward William	1918 V	New York City
LaWare, John Henry	1919 Ag	New York City
Lawrence, Agnes Alberta	Spec Ag	Ithaca
Lawrence, Myrtle Irene	1921 Ag	Buffalo
Lawrence, Walter Henry	1919 M	Corfu
Lawson, Albert Edward	1921 M	Philadelphia, Pa.
Lawson, Archie Nelson	1921 Ag	Brocton
Lay, Edwin Thorne	1920 Ag	Owego
Lazarus, Lillian Beatrice	1921 A	New York City
Lazo, Carlos	1918 L	New York City
Lazo, Charles Arthur	1921 Ag	New York City
Leach, Caroline Elizabeth	1919 Ag	Camillus
Leary, Emma Brenan	1920 A	Auburn
Leber, Wendolin Randolph	1921 M	Woodbridge, N. J.
LeBoeuf, Randall James, jr.	1920 L	Albany
Lebowsky, Harry, B.S.	Grad	Brooklyn
Lechler, Alfred Cobaugh	1920 Ag	Philadelphia, Pa.
Le Cluse, Eugene Francis	1921 M	Great Neck
Lee, Ruth Adeline	1921 Ag	Ellisburg
Leffingwell, Dana Jackson	1921 A	Aurora
Leffingwell, Thomas Arthur	1918 A	Aurora
Leffler, David	1921 V	New York City
Lefkowitz, Bernard Harold	1920 A (Chem)	New York City
Lehmann, Alvin Stanley	1921 C	Peoria, Ill.
Leibman, Edwin Albert	1919 M	Brooklyn
Leifer, Bernard	1921 A	Brooklyn
Leinbach, Harold Miller	1921 Ag	Reading, Pa.

Leinroth, Eugene Alfred	1919 M	Philadelphia, Pa.
Leister, Claude Willard, B.S.	Grad	West Point, Pa.
Leith, Donald Ethelbert	1920 Ag	New York City
Lenahan, Edwin Joseph	1922 C	Buffalo
Lent, George Hunt	1920 L	Tuckahoe
Leon, Luis de, A.B.	1920 C	San Miguel, Bulacan, Philippines
Leonard, Anna Mary	1919 Ag	Ithaca
Leonard, Harsey King	1918 V	Binghamton
Leonard, Lester Carpenter	1921 L	Belmar, N. J.
Leonhardt, Anna Margaret	• 1920 A	Redwood
Leppart, John Culver	1919 A (Chem)	Utica
Lev, Joseph	1920 A (Chem)	Brooklyn
Levene, Henry	1921 L	Binghamton
Levene, Hyman Charles	1921 M	New York City
Levi, Olma Cohn	1921 A	New York City
Levin, Bessie	1920 A	Brooklyn
Levine, Ephraim	1921 Ag	New York City
Levine, Joseph	1918 A Grad	Brooklyn
Levine, Joseph Milton	1919 A	Brooklyn
Levine, Samuel Zachary, B.A.	1920 M.D. (N. Y. C.)	New York City
Levine, Victor Emanuel, A.B., A.M., Ph.D.	1921 M.D. (N. Y. C.)	New York City
Levy, Charles Leon	1918 Ar	Wilkes-Barre, Pa.
Levy, Dorothy Franklin	1921 Ar	Philadelphia, Pa.
Levy, Frank Rosenzweig	1918 A	Dunkirk
Levy, Louis, B.S.	1920 M.D. (N. Y. C.)	New York City
Levy, Robert Goldsmith	1921 A	Wilkes-Barre, Pa.
Levy, Theresa, B.S.	1921 M.D. (N. Y. C.)	New York City
Lewis, Benjamin F.	1921 M	Utica
Lewis, Corbin Devillo	1919 Ar	Brooklyn
Lewis, Edward Howard	1921 M	New York City
Lewis, George Hail	1920 Ar	Cynwyd, Pa.
Leyens, Louis Edgar	1921 A	Vicksburg, Miss.
Li, Chuan-heng	1918 C	Canton, China
Lichtman, Solomon Sydney	1921 M.D. (N. Y. C.)	New York City
Liddle, Albert Walker	1918 A	Argyle
Liddle, Ralph Alexander	1918 A	Argyle
Liebeskind, Morris	1921 C	New York City
Lieke, Richard	1919 Ag	New York City
Lightfoot, Anna Elizabeth	1921 A	Geneva
Lightfoot, Ruth Edith	1921 Ag	Geneva
Lilienfeld, Leo	1921 A (Chem)	New York City
Lindau, Sigmund Baach	1918 C	Greensboro, N. C.
Lindberg, Harry Emil	1919 C	Buffalo
Linder, Mary Anna	1920 A	Syracuse
Lindman, Ina Sigrid	1920 Ag	Philadelphia, Pa.
Link, Oscar John	1918 Ag	Buffalo
Linnell, Herbert Harrington	1920 C	Springfield, Mass.
Linnell, Philip William	1921 C	Springfield, Mass.
Lins, Everett Winfield	1920 Ag	New Brighton
Lipe, Lewis, J.	1921 Ag	Sharon Springs
Lippincott, William Leroy	1918 A (Chem)	Hornell
Lippitt, Maxwell Walthour	1920 A (Chem)	Wilmington, N. C.
Little, Charles Warren	1920 L	Johnstown
Littlewood, William	1920 M	New York City
Liu, Abraham Sang	1918 M	Honolulu, Hawaii
Liu, Cheng-Fang	1921 M	Shanghai, China
Liu, Cheng-lin, B.S.	Grad	Shanghai, China
Livant, Julius	1919 A	New York City
Livingston, Carl Aaron	1921 A	New York City
Livingston, Graham	1920 A	New York City
Lobdell, Ruth Barker	1919 Ag	Plattsburg
Loebel, Robert Osias, B.A.	1921 M.D. (N. Y. C.)	Brooklyn
Loede, Frederick William, jr.	1919 Ag	New York City
Loeffler, Mathilda Pauline	1918 A	Philadelphia, Pa.
Loew, Alfred Jacob	1921 L	Floral Park
Loewe, Leon, A.B.	1918 M.D. (N. Y. C.)	Brooklyn
Lofton, Merrill Collier	1920 M	Chattanooga, Tenn.
Lonergan, Michael Paul, B.S.	1918 M.D. (N. Y. C.)	New York City
Long, Edward Harvey	1921 A	Huntington, W. Va.
Long, Louis Henzler	1921 Ag	Olean
Long, Paul Walker	1918 A	Huntington, W. Va.
Long, Russell Paul	1922 M	Watervliet
Loomis, Arthur Laurence	1918 A	Omaha, Nebr.
Loope, John Carlson	1918 Ag	McGraw
Lopez, Francisco Federico, A.B.	1918 M	Salta, Argentina
Lord, George Willis	1920 C	Evanston, Ill.
Lotter, Link Michael	1920 Ag	Springville
Lotter, Lloyd Bernhardt	1921 A	Springville
Louder, Earl Albert, B.S.	Grad	Huron, S. D.
Loughlin, Frank Joseph	1918 M	Westbury

Lounsberry, Dean Elwood	1919 Ag	Potter
Lounsbery, Louis Martin	1918 V	Randall
Loveland, Benjamin Bristol	1918 V	Franklin
Loveridge, Elmer Fred	1919 Ag	Churchville
Loveridge, George Loomis	1918 A	Churchville
Low, Margaret Juanita	1918 Ag	Brooklyn
Lowe, Burton Miller	1919 M	Ryegate, Vt.
Lowe, Charles Boyd	1919 A	New York City
Lowensohn, Leah Lazar	1921 A	New York City
Lowman, Henry Mather	1920 M	Cleveland, O.
Lowman, Shepard Wetmore	1921 Ag	Cleveland, O.
Lowry, Fern, B.S.	1918 A	Stillwater, Okla.
Lozovitsky, Myer Joseph, A.B.	1919 M.D. (N. Y. C.)	New York City
Lu, Feng-Shu	1918 C	Wusih, China
Lu, Yen Chih	1919 Ar	Shanghai, China
Lucas, Anna Vivian	1919 A	Hammonton, N. J.
Lucchetti, Raúl	1919 C	Ithaca
Luce, Carrie	1919 Ag	Ithaca
Luce, Laurence Edward	1919 M	Stratford, Conn.
Lucent, Santos Bellini, B.S.	1921 M.D. (N. Y. C.)	New York City
Luckings, Margaret Whitney	1918 A	New York City
Luckstone, Harold Charles	1919 A	New York City
Ludewig, Edwin William Charles	1921 Ag	New York City
Lueder, Josephine Augusta	1918 A	Ithaca
Lumsden, Mary Florence	1918 Ag	Ithaca
Luning, Henry Herman	1920 Ag	Brooklyn
Lurio, Meyer	1920 A	Brooklyn
Luscher, Marv Elizabeth	1918 A 1921 M.D.	LeRoy
Lustig, Harold Eugene	1921 A (Chem)	New York City
Lybolt, Lillian Antoinette	1918 Ag	Port Jervis
Lyford, Harry Burgh	1921 A	Rock Island, Ill.
Lynch, James Henry, jr.	1919 C	Buffalo
Lyons, Charles Ernest	1922 M	Dansville
Ma, Yu Chi	1919 C	Amoy, China
Maar, Harry Nicholas	1918 Ar	Buffalo
Mabee, Jennie Elizabeth	1919 A	Ithaca
Mac Adam, Janet Gregg	1921 A	Rome
McAllister, Francis Joseph	1920 Ag	Ithaca
McAllister, Willis Hamilton	1920 L	Columbus, O.
McAuliff, John Leon	1918 V	Cortland
MacBean, John Peter, jr.	1919 C	Philadelphia, Pa.
MacBean, Norman Dean	1920 Ag	Philadelphia, Pa.
McBerty, Ford Hapgood	1920 M	Ithaca
McBride, Earl James	1918 V	Warrensburgh
McCabe, Anna Elizabeth	1921 A	Haverstraw
McCabe, Halstead Miller	1920 Ag	Brooklyn
McCallum, Charles Ray	1918 A	Milwaukee, Wis.
McCarthy, George Harold	1920 M	New York City
McCartney, Marcia May	1920 A	Pleasant Plains, Ill.
McCartney, Robert Ames, V.S., M.D.C.	1921 V	Ellenville
McClatchy, John Benjamin	1920 C	Merion, Pa.
McClelland, Ralph Alexander	1921 L	Brooklyn
McClure, Frederic Luce	1920 C	Ensley, Ala.
McClure, John Hunter	1919 C	Richmond Hill
McConnell, James Asher	1921 Ag	Ithaca
McCooley, John Henry, jr.	1921 L	Brooklyn
McCormick, Donald	1920 Ar	Wilkes-Barre, Pa.
McCoy, Charles Stickney	1921 V	Sussex, N. J.
McCullough, Henry Geyer	1922 M	Brooklyn
McCune, Mary Gertrude, Litt.B.	1919 Ag	Grove City, Pa.
McDearmon, George Washington	1920 C	Newport, Ark.
McDonald, Angus	1920 M	Louisville, Ky.
McDonald, Delos Lyon	1920 M	Dubuque, Iowa
McDonald, John Manderson, jr.	1920 M	Dubuque, Iowa
McDonell, Frank Williams	1919 M	New York City
McDonell, Howard Archibald	1918 M	New York City
MacDougall, James Campbell	1919 M	Phoenixville, Pa.
McDuffie, Roy Oliver	1918 A	Cincinnati, O.
McEdward, John Gordon	1921 M	New York City
McElfresh, John Lister	1920 A (Chem)	Baltimore, Md.
McElroy, Margaret Julia, A.B.	Grad	Iowa City, Iowa
McEntee, Royal Hugh	1921 A	Bath
McFadden, Thomas Joseph Aloysius	1921 A	West New Brighton
McGahan, James Cornelius	1921 Ag	Troy
McGinnis, Forrest William, B.S.	Grad	Corvallis, Ore.
McGranaghan, Edmund Burke	1918 Ag	Hancock
McGrath, Francis Ignatius	1920 C	Stratford, Conn.
McGraw, James Sturtevant	1921 Ar	Ithaca
McGraw, Robert Bush	1918 A 1921 M.D.	Ithaca

MacGregor, Ross Edward	1918 C	Malone
McGuire, Whitney Scott	1922 M	Richmond, Ind.
Mac Innes, Paul Alexander	1921 A (Chem)	Syracuse
Mack, Harry Elias, A.B.	1920 M.D. (N. Y. C.)	Brooklyn
Mack, Lucy Marion Loveland	1919 A	Albion
Mack, Richard Ellsworth	1921 A	Canton, O.
McKay, Marguerite	1918 A	Geneva
MacKellar, Gordon	1920 C	Hazleton, Pa.
MacKellar, John Walter	1918 A	Blauvelt
McKenna, William Bernard	1920 Ag	Far Rockaway
MacKenzie, Edwin Gordon	1920 A	Millbrook
McKenzie, James Donald	1921 M	Buffalo
MacKenzie, John Wilbur	1921 M	Providence, R. I.
Mackenzie, Lachlan	1922 M	Highland Falls
Mackey, Charles David	1920 A	Montrose, Pa.
McKinney, Asa Emanuel, A.B., A.M.	Grad	Ithaca
McKinstry, Ross Waldron	1918 C	Chicago, Ill.
McKnight, Herbert Winfield	1921 L	Fulton
McLean, True	1921 M	New Brighton
McLoughlin, Vincent	1920 C	New York City
McMaster, Marcus Aurelius	1921 Ag	Rochester
McMillan, Catherine Elizabeth	1921 A	Delanson
McMullen, Eleanor Clara	1920 A	Buffalo
McMurray, Harold Benjamin	1921 Ag	Delevan
McMurry, Katherine Lindley	1918 A	Yonkers
McNair, George Henderson Stanser	1918 C	West New Brighton
McNally, James Curran	1922 M	Pittsburgh, Pa.
McNamara, Charles Goodwin	1921 M	Hammondsport
McNicol, Jessie Bone	1919 A	New York City
McNulty, Sarah Alice	1920 A	Buffalo
Macpherson, James William	1919 M	Brooklyn
McPherson, Roger Davis	1921 Ar	Palmyra
McReynolds, Rex	1921 C	Waco, Tex.
McRostie, Gordon Peter, B.S.A.	Grad	Ithaca
McSparran, Dorothy	1918 A	Furniss, Pa.
McSparran, Ruth	1920 A	Furniss, Pa.
McVann, Donald Edward	1921 A	Chicago, Ill.
McVean, Albert Robert Francis	1920 M	LeRoy
Madden, William Francis	1921 C	Cortland
Maddy, John Churchill	1918 Ag	Ithaca
Mahl, William	1920 A	New York City
Maier, Dorothy Carol, A.B.	Grad	Bloomfield, N. J.
Main, Amos La Verne	1920 M	Myers
Malcolm, Talbot Marion	1918 A	Ithaca
Mallery, Robert Gray	1920 M	Owego
Mallery, Roger Henry	1919 Ag	Owego
Mallery, William Taber	1921 M	Owego
Mallory, Burton Cowles	1921 M	New Britain, Conn.
Mallory, Edmund Thompson	1922 Ar	Saratoga Springs
Malone, William	1920 M	New York City
Maloney, John Mathew	1921 A	Brooklyn
Maloney, William Michael	1921 A	St. Paul, Minn.
Maltby, Lucy Mary	1921 Ag	Corning
Manchester, Wilbur Oscar	1921 C	Nassau
Mandelberg, Joseph, A.B.	1919 M.D. (N. Y. C.)	Brooklyn
Manning, Frank LeRoy	1919 Ag	Otisville
Mar, Frank William	1918 Ag	Richmond Hill
Marcoglou, Aristides Sawas	1919 M	Candia, Crete, Greece
Marcus, Harry Louis	1921 M.D. (N. Y. C.)	Brooklyn
Margulies, Albert	1920 Ag	New York City
Markthaler, Leo Valentine	1920 M	Elmira
Marsh, Anna	1919 A	Brooklyn
Marsh, Helen Townsend	1921 Ag	Interlaken
Marsh, Herbert Edward, B.S. in Agr.	1920 V	New Milford, Conn.
Marshall, Archibald Warren	1920 L	Deming, New Mex.
Marsland, Merwin Elliott, A.B.	1918 M.D. (N. Y. C.)	Hamden
Martens, James Hart Curry	1922 C	Shrub Oak
Martin, Alice Couzens	1921 A	Yonkers
Martin, Charles Ellison	1921 C	Rochester
Martin, Edmond	1921 A	Brooklyn
Martin, Elma Gillispie, B.Ph.	Grad	Montour Falls
Martin, Howard Eshelman	1918 V	Clarence Center
Martin, John Ward	1918 C	Chicago, Ill.
Martin, Martha Elizabeth	1921 A	Catskill
Martin, Stanley Andrew	1919 Ar	Webster
Martin, Thomas Lysons, A.B.	Grad	Ithaca
Martin, Willis Elwin	1920 A (Chem)	Newburgh
Martinez, Andrew Richmond	1920 L	New Orleans, La.
Martinez, Arturo	1920 M.D. (N. Y. C.)	Mayaguez, P. R.
Martins, Abilio Pinto	1920 Ag	Rio de Janeiro, Brazil

Martwick, Irving Julius	1921 Ag	Brooklyn
Marvin, Ira Huston	1921 A	Kingston, Pa.
Marx, Ellen Hedwig	1919 A	Newark, N. J.
Marx, Walter	1920 A	Newark, N. J.
Masius, Leonard Max	1920 L	New York City
Mason, Donald Wesley	1921 Ag	Rochester
Mason, Elliott Butler	1920 A (Chem)	Milwaukee, Wis.
Mason, Mary Maxine	1920 Ag	Ithaca
Mason, Rodney	1921 A	Sacket Harbor
Mason, Scott Bryden	1919 L	Buffalo
Master, Arthur Matthews, B.S.	1921 M.D. (N. Y. C.)	New York City
Matakonsky, Harry	1918 A (Chem)	Port Chester
Mathews, Frances Iona	1921 Ag	Valois
Mathewson, Lemuel	1922 M	Bath
Matkin, Paul Van Deren	Spec Ar	Indianapolis, Ind.
Matson, Richard McConnell	1921 M	Ithaca
Mattli, Peter Antony	1918 Ag	Uri, Switzerland
Mauer, Jacob Clarence	1919 Ag	Cohoes
Maurillo, Dominick Francis	1920 A	New York City
Maxeiner, Carl August	1918 C	Albany
Maxson, Clark Perdue	1921 M	Cleveland, O.
Maxwell, Archibald McIntyre	1918 A	Owensboro, Ky.
May, Frederick Arthur	1920 A	Brooklyn
Mayer, Kurt Arnold	1920 Ag	Brooklyn
Mayer, Ludwig Stolz, B.S.	Grad	Ithaca
Mayer, William Lyndon	1918 Ag	Durhamville
Maynard, Kingsley Darwin	1918 A 1921 M.D.	Roscoe
Mazurowski, Bruno Casimir, A.B.	1919 M.D. (N. Y. C.)	Buffalo
Meade, DeVoe, B.S.	Grad	Ithaca
Meadow, Jacob	1920 L	Paterson, N. J.
Meaker, Ellis Robert	1921 M	Auburn
Mears, Alvin Arthur	1921 Ag	Cleveland, O.
Measday, Walter, jr.	1920 Ag	Brooklyn
Medlong, Frederick William	1919 Ar	Oswego
Meehan, Agnes Marie	1921 L	Troy
Megear, William Bell, jr.	1920 A	Wilmington, Del.
Meier, Albin	1921 A	Hamilton, O.
Meier, Walter Julius	1919 A	St. Louis, Mo.
Meikle, John Donald	1920 Ag	Baltimore, Md.
Meinken, Kenneth Charles	1922 M	New York City
Mekeel, Amy Grace, A.B.	Grad	Trumansburg
Mellinger, Marion Frances	1918 A	Buffalo
Menaker, Leonard Marx Areling	1921 Ag	New York City
Mendiola, Nemesio Blanco, B.S., M.S.	Grad	Angono, Rizal, P. I.
Meng, Harold Anthony	1918 A	Rochester
Mentz, Joseph Mathias	1921 A	Newark, N. J.
Merchant, Charles Henry	1920 Ag	West Monroe
Mereness, Kneeland Abram	1919 M	Sharon Springs
Merker, Herman	1918 M	Milwaukee, Wis.
Merrill, Harriet Elizabeth	1921 Ag	Brooklyn
Merrill, Raymond Nathaniel	1920 M	Springfield, Mass.
Merritt, Douglas Depuy	1919 Ag	Woodbourne
Mertens, Jacob, jr.	1919 A	New Rochelle
Mertz, Gordon John	1920 M	Colden
Mertz, Pierre	1918 A	Jamaica
Messinger, Edith Katherine	1919 Ag	Oakfield
Messinger, John Milton	1920 A	Oakfield
Metcalf, Kenneth Leon	1921 Ag	Delevan
Metzger, Herbert John	1918 V	Groton
Metzger, Herman Arthur	1921 M	New York City
Metzger, Ruth Isidor, B.A.	Grad	Elmira
Metzner, Ralph William	1921 A	Wheeling, W. Va.
Meyer, Alfred William	1921 V	West Shokan
Meyer, Carl William	1920 A (Chem)	Brooklyn
Meyer, Garret Frederick	1918 A	St. Louis, Mo.
Meyer, Helen Luise	1919 A	Marcy
Meyer, Herman William	1921 Ag	Philadelphia, Pa.
Meyer, Robert William, Ph.B., Sc.M., B.S.A.	Grad	Rebersburg, Pa.
Meyerson, Hyman	1919 A	New York City
Michel, Achilles Edmund	1922 M	Buffalo
Michel, Walter Eugene	1920 Ag	Riverton, N. J.
Michelson, Benjamin Charles	1919 C	Washington, D. C.
Middaugh, Irving Seely	1918 Ag	Brookton
Middlehurst, Arthur Edward	1919 Ar	Vincennes, Ind.
Middleton, Gordon Kennedy, B.S. in Agr.	Grad	Warsaw, N. C.
Migrdichian, Vartkes	1919 A	Rodosto, Turkey
Mihalko, Richard Barner	1920 Ag	Hobart
Millard, Dudley Horton	1921 M	Kingston, Pa.
Millard, Henry Ray	1921 Ar	Omaha, Nebr.
Miller, Abraham Eliot	1921 A (Chem)	New York City

Miller, Allison Harter	1921 A	Kingston, Pa.
Miller, Charles Karleton	1921 C	Rochester
Miller, Charles Marion	1919 M	Mayville
Miller, Charles Stern	1919 A	Corona
Miller, Clarence Merton	1918 V	Wells River, Vt.
Miller, Cyrus W.	1918 M	Brooklyn
Miller, Eda Grace	1918 A	Wilkes-Barre, Pa.
Miller, Elizabeth Janet	1919 Ag	Ithaca
Miller, Franklin Gouverneur	1921 M	New York City
Miller, Frederick William Addison, Ph.B., M.A.	Grad	Ivoryton, Conn.
Miller, Harold Fredric	1920 A	Seneca Falls
Miller, Henry Rohrer	1919 Ag	Mamaroneck
Miller, Iva Evelyn	1920 Ag	Alden
Miller, Laura, A.B.	1920 M.D. (N. Y. C.)	New York City
Miller, Lewis Charles	1921 M	Ithaca
Miller, Mary Alida	1921 Ag	Warsaw
Miller, Mary Helen	1921 Ag	Ithaca
Miller, Nathan Abraham	1919 L	Wooster, O.
Miller, Prue Herzberg	1921 A	Philadelphia, Pa.
Miller, Stella Miriam	1920 M.D. (N. Y. C.)	West New York, N. J.
Miller, Walter Scott	1921 Ag	Brooklyn
Miller, Wayne Downing	1919 M	Meriden, Conn.
Miller, Winifred	1921 Ag	Candor
Milligan, William Girvan	1918 Ag	New York City
Mills, Adrian Morse	1920 V	Durhamville
Milmoe, Margaret Dorothea Patricia	1920 A	Canastota
Milstein, Samuel Harry	1920 A	Albany
Minasian, George Talmage	1919 M	Glen Ridge, N. J.
Mindes, Bernard	1919 L	Newark, N. J.
Miner, Edwin Demetrius	1921 M	Mt. Vernon
Miner, Harry George	1921 C	Louisville, Ky.
Ming, Frederick Woo	1920 Ar	Ithaca
Minier, George Rider	1918 Ag	Waco, Tex.
Minier, Julian Rider	1919 Ag	Waco, Tex.
Minton, Paul Haring	1921 M	Chatham, N. J.
Minturn, Marion Katharin	1921 Ag	Auburn
Mirick, Dorothy Howe	1919 A	Brooklyn
Miron, Adolph	1918 A	Elizabeth, N. J.
Miscall, Leonard	1919 C	Albany
Mish, Frank Winder, jr.	1921 A	Hagerstown, Md.
Misner, Edward Gardner, B.S.	Grad	Dairyland
Mitchell, Alice Pauline	1919 A	Ithaca
Mitchell, Dale Raymond	1921 A	Newfield
Mitchell, Isaac Brown	1918 Ag	Ithaca
Mitchell, Maxwell, B.S.	1920 M.D. (N. Y. C.)	New York City
Mitchell, Robert Arthur	1921 Ar	Norfolk, Va.
Mittelman, Louis	1919 A (Chem)	Buffalo
Moersfelder, William John	1919 Ag	New York City
Moffat, David Halliday	1921 M	Denver, Colo.
Moffitt, Thomas Edward	1920 A (Chem)	Wallace, Idaho
Moline, Hilda Josephine	1919 Ag	Patterson
Molinet, Enrique	1920 M	Delicias, Cuba
Molinet, Joaquin, jr.	1921 M	Chaporra, Cuba
Monahan, Edward, jr.	1918 Ag	Johnstown
Monroe, George William, Jr.	1918 A	Dryden
Monroe, Olive May	1920 Ag	Waverly
Monsalve, Alejandro, B.Ph. and L.	1921 Ag	Bolivar, Colombia, S. A.
Montague, William Pepperell, jr.	1921 A (Chem)	New York City
Montero, Harry Ernest, B.S.	1920 M.D. (N. Y. C.)	Bloomfield, N. J.
Montes, Carlos	1920 Ag	La Paz, Bolivia
Montfort, Ellis Lindsey	1920 V	Peruville
Montgomery, Maxine Erminie	1918 Ag	Montour Falls
Montgomery, Paul Ray	1921 Ar	New York City
Moody, Robert Elbridge	1918 A	Rushville
Moon, Hubert Hill	1918 Ag	Burke, Va.
Moore, Arthur Hale	1921 C	Lyndhurst, N. J.
Moore, Dean Crawford	1918 A	Newark, N. J.
Moore, Harold Henry	1919 A	Auburn
Moore, Harry Cordery	1918 M	Atlantic City, N. J.
Moore, John MacLeod	1921 A (Chem)	Fredonia
Moore, Mary Eastman	1920 Ag	Ithaca
Moore, Roy Wallace	1918 Ag	Silver Creek
Moore-Smith, Jane Janetta	1918 A	Blauvelt
Moran, Charles Blake	1919 M	Bernardsville, N. J.
Moran, James Edward Arthur	1921 L	Escanaba, Mich.
Mordoff, Richard Alan, B.S. in Agr.	Grad	Ithaca
Mordoff, William Emerson, M.E.	Grad	Ithaca
Morey, James Benedict	1918 M	Buffalo
Morgan, Carlton James	1920 V	Mohawk
Morgan, Mary Ives	1920 Ag	Ithaca

Morgan, Thomas Richard	1920 A	Gilberton, Pa.
Moriarty, Mortimer Emmet	1921 A	Manchester, Conn.
Morrill, Channing Hawkes	1919 Ag	Richmond Hill
Morris, Benn Grandin	1921 M	Ithaca
Morris, Cora Hennen	1920 M.D. (N. Y. C.)	New York City
Morris, Donald Evan	1920 Ag	Lincoln
Morris, Ethel Mae	1918 Ag	Perry
Morris, Galloway Cheston	1921 M	Philadelphia, Pa.
Morris, Henry Gray	1918 A 1921 M.D.	Jamestown
Morris, Mary Elizabeth	1919 A	Oil City, Pa.
Morris, William John	1922 M	Wilkes-Barre, Pa.
Morrison, Charles Townley	1920 A (Chem)	Ithaca
Morrow, Hugh Ellis, B.S.A.	Grad	Brooklyn
Morrow, Margaret Weir	1921 Ag	Ithaca
Morse, Charles Walter	1920 A (Chem)	Amsterdam
Morton, John Waller	1918 C	Washington, D. C.
Morton, Walter Francis	1921 A Chem.	Bayonne, N. J.
Moses, Fannie	1918 A (Chem)	Baltimore, Md.
Moses, Olga Dorothea	1918 A	Mt. Vernon
Moses, Winifred, B.S.	Grad	Ithaca
Mosher, James Howell	1921 M	Ithaca
Mosher, Ralph Emerson	1921 Ag	Aurora
Mott-Smith, Harold Meade	1918 A (Chem)	Schenectady
Mott-Smith, Stanley	1919 M	Honolulu, T. H.
Muenscher, Walter Conrad, A.B., A.M.	Grad	Lynden, Wash.
Mulford, John Deming	1922 M	Salem, O.
Muller, Charles George	1919 A	New York City
Muller, Mildred	1920 A	West Somerville, Mass.
Muller, Richard	1921 M	New York City
Mulligan, Edward Durand, B.A.	1918 Ag	Rochester
Mumper, Conrad Hewitt	1921 A (Chem)	Trenton, N. J.
Munisteri, Philip	1919 C	Brooklyn
Munroe, Emilie Frances	1918 A	Astoria
Munsell, Cornelia Adele	1920 Ag	New Hartford
Munsick, George	1921 A	Maplewood, N. J.
Muntz, William Emanuel	1921 A	Buffalo
Murphy, Helen Elizabeth, B.S.	Grad	Phoenix
Murphy, Henry Penny	1920 L	Pawling
Murphy, Paul Charles	1918 A	St. Paul, Minn.
Murphy, Paul Joseph	1921 A	Titusville, Pa.
Murray, Mary Isabel	1919 A	McDonald, Pa.
Murray, William Colman	1921 A	Dunkirk
Muskovin, Albin	1918 V	Cortland
Musson, Scott Leeds	1921 Ag	Gilbertsville
Myatt, Alice	1920 Ag	Philadelphia, Pa.
Myers, Harvey William	1919 V	Kenoza Lake
Myers, Joseph Allen, jr.	1920 Ag	Bryan, Texas
Myers, Oscar	1921 A (Chem)	Hartford, Conn.
Myers, Ralph Emerson, A.B., M.A.	1918 M.D. (N. Y. C.)	Cobleskill
Nachmani, Isaac	1918 A 1921 M.D.	Rehoboth, Palestine
Nadherny, Russell John	1921 M	Chicago, Ill.
Nagler, Salyg	1918 C	New York City
Nahama, Joseph Jacob	1921 Ag	New York City
Nakahara, Waro, B.S.	Grad	Tokyo, Japan
Nallin, Leo Joseph John	1921 A	Port Jervis
Nankivell, Francis John	1918 M	New York City
Nanz, Ralph Simpson, B.S.	Grad	Ithaca
Narwold, Alfred Henry	1920 A	Cleveland, O.
Nash, Edward	1921 M	Norwich
Nash, Naomi	1920 A	Ithaca
Naumburg, Frederic Wehle	1920 Ag	New York City
Neal, Alice Heselton	1920 A	Philadelphia, Pa.
Neale, William Wallace	1921 M	Richmond, Va.
Nealon, Edward Joseph	1921 Ag	Paterson, N. J.
Needle, Joseph	1920 C	Charleston, S. C.
Neeland, Charles John	1920 M	Montclair, N. J.
Neely, Elizabeth	1919 A	Philadelphia, Pa.
Nelson, Forrest Prince	1919 Ag	Groton, Vt.
Nelson, James Mandeville	1919 Ag	Mt. Vernon
Nelson, Margaret Hathaway, A.B.	1920 M.D. (N. Y. C.)	Buffalo
Nelson, Nathan Loeb	1919 Ag	Brooklyn
Nelson, Samuel Herman	1919 L	Newark, N. J.
Nemser, Joseph	1920 A (Chem)	New York City
Nethercot, David George	1919 C	Winnetka, Ill.
Neuhaus, Ralph	1919 M	Houston, Texas
Nevens, Milton Alson	1919 Ag	Glens Falls
Neville, Homer Borst	1918 Ag	Sharon Springs
Newman, Ruth	1921 Ag	Churchville
Newton, Norman Toivo	1919 Ag	Brooklyn

Nichols, Melvin	1918 A (Chem)	Dayton, O.
Nicholson, James Starr	1921 C	Pittsburgh, Pa.
Nicholson, Samuel Ralph	1921 M	Wilkes-Barre, Pa.
Nicholson, Thomas Jesmond	1920 M	Wilkes-Barre, Pa.
Niedeck, G. Albert	1921 M	Ithaca
Nightingale, Donald James	1918 A	New York City
Nigrelli, James	1920 A	Peace Dale, R. I.
Nill, Frederick	1919 A (Chem)	Buffalo
Nirenberg, Betram	1918 M	Brooklyn
Nirenberg, Harry	1918 A, 1921 M.D.	Brooklyn
Noble, Clarence Vernon	Grad	Ithaca
Noble, Everett Ewing	1920 A	Lander, Wyo.
Noble, Lawrence Everman	1921 A (Chem)	Houston, Texas
Nolin, Albert Raymond	1920 M	Auburn
Nordgren, Carl Wilhelm	1921 Ag	Schenectady
Norris, Leo Chandler	1919 Ag	Hornell
Northrop, Burdette Kibbe	1919 M	Tarpon Springs, Fla.
Northrup, Ruth Winifred	1921 A	Homer
Norton, Charles Erastus	1919 M	Byron
Norton, Darwin Parker	1918 Ag	Oneida
Norton, Laurence Joseph	Grad	Middle Granville
Nostrand, Dudley Stephen	1920 A	Jamaica
November, Nathan	1919 C	Brooklyn
Novogrudsky, Barnet	1919 A	New York City
Nudell, Moe, B.A.	1921 M.D. (N. Y. C.)	New York City
Nugent, Albert Edward	1921 M	Dunkirk
Nugent, Paul Fordham	1919 A	Southampton
Nye, Katherine Buxton	Spec Ag	Ithaca
Nye, Ruth Hammond	1920 Ag	Auburn
Oakes, Claire Wellington	1920 Ag	Medina
Oakes, Leonard Bertrand	Spec Ag	Medina
Oates, Francis John	1920 Ag	Greene
O'Brian, Gerald Aldrich	1918 Ag	Dunkirk
O'Brian, William Francis	1922 M	Oswego
O'Brien, Franklin Parsons	1919 A	Evanston, Ill.
O'Brien, Henry Lewis, jr.	1921 L	Brooklyn
O'Brien, Ruth Marie	1921 A	Port Leyden
O'Brien, William Clyde	1921 L	Rochester
O'Connor, James Burke	1922 M	Elmira
Odell, Ruby May	1921 Ag	Spencerport
Oelkers, Marita	1919 A	Brooklyn
Ogden, Priscilla Campbell	Spec Ar	Ithaca
Olds, Edwin Glenn	1918 A	Lockport
O'Leary, Joseph Henry	1921 V	Cortland
Olin, Spencer Truman	1921 M	Alton, Ill.
Oliver, Clara	Spec Ag	Ithaca
Olsan, David Byron	1920 L	Rochester
Olson, George	1919 M	Chicago, Ill.
Onstott, Virgil Samms	1921 C	Saltsburg, Pa.
Ormiston, Robert St. John	1921 A	Delhi
Orton, Lawrence Mitchell	1921 A	Elmhurst
Orton, Malcolm Fuller	1919 A	Elmhurst
Osborne, Stuart Milton	1922 M	Onelda
Oschrin, Leon	1922 M	Jersey City, N. J.
Ostergren, Carl Fritiof	1921 M	Brooklyn
Ostergren, Oscar Raynor	1920 M	Brooklyn
Ostrander, Charles Leslie	1921 V	Brookton
Ostrander, Paul Duane	1921 M	Schuylerville
Ostrom, Selden William	1921 A	Olean
Oteiza, Pablo Benigno	1920 Ar	Cienfuegos, Cuba
Otis, Willard Benjamin	1919 Ag	Venice Center
Ottley, Frances Mabel	1920 A	Ithaca
Owen, Carroll Hepburn	1918 A	Millville, N. J.
Oxholm, Gustav Kielland, B.A.	1919 M.D. (N. Y. C.)	New York City
Pabst, Howard Philip	1920 Ag	Albany
Packer, Abraham	1918 V	Brooklyn
Paddock, Arthur James	1921 V	Prattsburgh
Paddon, William Wallace	1921 A (Chem)	Utica
Page, Irvine Heinly	1921 A	Indianapolis, Ind.
Page, Joseph Russell	1920 Ag	Greene
Paine, Alfred Joseph	1919 Ag	Ithaca
Paine, Ernest Trowbridge, A.B., A.M.	Grad	Ithaca
Palacio, Francisco Gomez, jr.	1921 Ar	Mexico City, Mex.
Palew, Philip	1920 Ag	Brooklyn
Palmer, Glenn Charles	1920 Ag	Oil City, Pa.
Palmer, James Beckley	1921 Ag	Oil City, Pa.
Palmer, Margaret Helen	1919 Ar	Grosse Ile, Mich.
Palmér, Ralph Gorman	1918 Ag	Oil City, Pa.

Palmer, Roger Sherman, B.A.	1921 M.D. (N. Y. C.)	Pomona, Cal.
Papke, William August	1919 A (Chem)	Brooklyn
Parbury, Caroline Marjorie	1921 Ag	New Rochelle
Park, John Bothwell	1921 A	Horsham, Pa.
Parke, Torsten Herbert	1919 M	Chicago, Ill.
Parker, Paul Everett	1921 A	Gouverneur
Parker, William Henry	1921 A	Waco, Texas
Parks, Charles John, Ph.B.	Grad	Ithaca
Parks, Floyd Roswell	1921 A	Binghamton
Parks, Wellington Edward	1919 V	Leeds
Parnes, Paul	1920 A	Brooklyn
Parsell, Charles Victor, jr.	1919 L	Ithaca
Parsell, Richard Kendrick	1921 A (Chem)	Ithaca
Parsloe, Gertrude Mae	1921 A	Watkins
Parsons, Harriot Anne	1919 A	Buffalo
Parsons, Julius Edward	1919 Ag	Sharon Springs
Pashley, Mable Rae	1918 Ag	Ovid
Patch, Robert Buckingham	1920 M	Berkshire
Patterson, Frank	1921 Ag	New York City
Pattison, Jean Harwood, A.B.	1919 M.D. (N. Y. C.)	New York City
Patton, Cuyler Shaw	1919 M	Akron, O.
Patton, Mabel Mary	1919 A	Gouverneur
Peabody, George Eric	1918 Ag	Wayland
Peabody, Richard Hall	1921 Ag	White Plains
Pearce, Abram Scott	1919 Ag	Sparks, Md.
Peare, Willard Chase	1919 M	Stamford, Conn.
Pease, Donald Linus	1920 V	Delhi
Peck, Charles Gifford	1921 Ag	Phelps
Peck, Donald Forsyth	1920 L	Bloomfield, N. J.
Pedlow, Clarence Thomas	1920 Ag	Indianapolis, Ind.
Peer, Alfred James	1920 L	Deal Beach, N. J.
Pekary, Charlotte Helen, A.B.	Grad	Brooklyn
Pelley, Cyril Gordon	Spec M	Greeley, Col.
Pellman, Arthur George	1921 A	Buffalo
Pendery, Marcelle	1921 L	New York City
Pendelton, Claude M.	1918 C	Port Dickinson
Pendleton, Fields Seeley, jr.	1920 A	Brooklyn
Pennock, Charles Foster	1920 A	Lansdowne, Pa.
Pepper, Benjamin	1918 A	New York City
Perce, Charles Clifford	1919 Ag	Clyde
Perlman, David	1919 C	Washington, D. C.
Perlzweig, Jacob James	1918 Ag	New York City
Perrine, Schuyler Alden	1920 Ag	Centralia, Ill.
Perry, Beatrice Thomas	1921 Ag	North Franklin
Perry, Henry Clinton Strawn	1919 A	Jacksonville, Fla.
Perry, Raymond Arnold	1918 Ag	Dundee
Pershing, Howell Terry, jr.	1921 A	Denver, Colo.
Peters, George Hugo	1921 Ag	Brooklyn
Peters, Lucian Martin	1921 A	Springville
Peters, Russell Holt	1920 A	Omaha, Nebr.
Peterson, Ruth Edith Katherine	1918 A	Ithaca
Petrie, Maitland Bertran	1921 L	Point Pleasant, N. J.
Petty, Franklin William	Grad	North Westport, Mass.
Pettyjohn, Charles Raine	1918 M	Lynchburg, Va.
Pfleger, Kenneth Warner	1921 A	Arlington, N. J.
Pflueger, John Seiberling	1920 A	Akron, O.
Pfordte, Frederick Edgar	1919 Ag	Cairo
Pforr, Idella Hall	1921 L	Brooklyn
Pharo, Marian	1919 A	Philadelphia, Pa.
Phelan, Earl Walter	1921 A (Chem)	East Orange, N. J.
Phelan, Walter Francis, A.B.	1920 M.D. (N. Y. C.)	Yonkers
Phelps, Alpheus Randolph	1918 L	Niagara Falls
Phelps, Leon Stanley	1920 Ag	Saratoga Springs
Philipson, Robert Arnson	1919 C	Ossining
Phillips, Juda Anna	1918 Ag	Crown Point
Phillips, Robert Conkling	1920 A	Port Jervis
Phipps, Donald Amos	1922 M	Oyster Bay
Phipps, Emma Virginia	1919 Ag	Buffalo
Piazza, John James	1922 C	Buffalo
Pierce, Claire Edith	1919 A	Limerick
Pierce, Everett Washington	1921 Ag	Sidney
Pierce, Paul Perry	1919 Ag	Machias
Pierce, William Marion	1918 A	Dunkirk
Pierson, Albert	1920 M	Brooklyn
Pierson, Arthur	1918 A	Meriden, Conn.
Pierson, David Robert	1921 A	Carrollton, Ill.
Pincus, Barrett, B.S.	1920 M.D. (N. Y. C.)	New York City
Ping, Chih, B.S.	Grad	Ho Nan, China
Pioso, Robert Lyons	1921 Ar	Chicago, Ill.
Piper, Wesley Scofield	1921 Ag	Wurtsboro

Pippey, Edith Josephine	1919 Ag	New York City
Pirnie, Nelson R.	1921 L	Pulaski
Pise, Eleanor Manwaring	1921 A	Goshen
Pitcher, Joel Ketchum	1920 A	Freeport
Plantinga, John Gilbert	1921 M	Cleveland, O.
Plass, Edward Lorenzo	1920 Ag	Poughkeepsie
Platt, Joseph Curtis	1921 M	Scranton, Pa.
Platt, Kenneth Merwin	1921 Ag	Milford, Conn.
Plehn, George Joseph, A.B.	1920 M.D. (N. Y. C.)	New York City
Plumb, George Taylor	1922 M	North Bangor
Podrog, Israel	1918 A (Chem)	Ithaca
Polack, Waldemar	1921 C	New York City
Pollack, Harry Louis	1921 A	New York City
Pollard, Frank Howell	Grad	Auburn
Pollard, George Fitz Randolph	1920 Ag	Chatham, N. J.
Pollock, Eliza Smiley	1920 A	Cleveland, O.
Pomeranz, Solomon	1918 Ag	Pleasant Valley
Pond, Dorothy	1918 A	Crown Point
Pooley, Robert Cecil	1920 A (Chem)	Brooklyn
Poritsky, Abraham	1919 Ag	New York City
Poritsky, Hillel	1920 Ag	New York City
Portas, Cornelio Estarija	1920 C	Gubat, Sorsogon, P. I.
Porter, Alexander Langmuir	1920 A	Niagara Falls
Porter, Catherine Lucy	1919 A	Patterson
Porter, George Curtis	1918 Ag	Upper Lisle
Porter, Harry Wray	1919 A	Oakland, Md.
Porter, Joseph Henry	1921 Ag	Sag Harbor
Porter, Joseph Pullman, B.S.	Grad	New Rochelle
Porter, Lucy DuBois, B.A.	1919 M.D. (N. Y.C.)	New York City
Porter, Tyler Copeland	1921 M	Brookline, Mass.
Porter, William Herman	1919 Ag	Lockwood
Postman, Mark William	1919 Ag	New York City
Potter, Alfred Latimer, A.B.	1918 M.D. (N. Y. C.)	Hampton, Conn.
Potter, Lloyd Gregory	1921 A (Chem)	New York City
Potter, Mildred	1918 A	Ithaca
Potter, Olin Chester	1921 Ag	Collins
Potter, Wilburn Herrick	1918 V	Varna
Potts, George Carson	1920 M	Philadelphia, Pa.
Powell, Desmond Stevens	1920 A	Waverly
Prangen, Evelyn	1920 A	Hornell
Pratt, Roy Ernest	1922 C	Franklinville
Pregler, Anton Andrew	1920 C	Glenbrook, Conn.
Prellwitz, Edwin Mitchell	1920 Ag	Peconic
Prentiss, Earl Allison	1920 Ag	Watkins
Preston, Frances	1919 Ag	Canton, Pa.
Preston, Gerald Lucius	1921 Ag	East Pharsalia
Preston, Kenneth Frank	1921 A	Binghamton
Preston, Ross McKean	1919 Ag	Ithaca
Previn, Siegfried	1920 M	New York City
Price, David Willard	1921 M	Frostburg, Md.
Price, Walter Van	1918 Ag	Syracuse
Priestley, Marion Randolph	1919 Ag	Ithaca
Prieto, Ferdinand Garcia, jr.	1920 M	San Miguel, Salvador, C. A.
Pringle, Henry Fowles	1919 A	New York City
Pritchard, James George, jr.	1919 Ag	Ithaca
Protzman, William Wilfred	1920 A	Brooklyn
Prout, Curtis Tuttle	1921 A	Windham
Proux, Mildred Agatha	1921 A	Glens Falls
Prugh, Edwin Neven, jr.	1920 M	Bellevue, Pa.
Pujol, John B.	1920 C	Bolondron, Cuba
Pulford, Henry Lloyd	1920 M	Winnipeg, Canada
Pujol, John B.	1920 C	Bolondion, Cuba
Pulford, Henry Lloyd	1920 M	Winnipeg, Canada
Purdy, Alvin Canfield	1920 A	Middletown
Purdy, Donald MacLean	1921 A (Chem)	Ithaca
Purdy, Dorothy Winifred	1918 Ag	Ithaca
Purdy, Earl, B.S.	1920 Ar	Saratoga Springs
Purdy, Randall Brockner	1920 M	Laurelton
Purpura, Ida Frances	1918 A, 1921 M.D.	Herkimer
Putman, Hicks Warren	1921 Ag	Brooklyn
Puttick, Gail Ferguson	1918 Ag	Wellington, S. Africa
Quackenbush, Ralph Jacob	1920 Ag	Cornwall-on-Hudson
Quaif, Clara Ella	1921 A	Richfield Springs
Quail, Wallace Blanck	1919 M	Brooklyn
Quaintance, Richard Edgecombe	1919 M	New York City
Quat, Arnold	1920 A (Chem)	New York City
Quattlander, Stella Josephine	1921 A	Buffalo
Quick, Francis Eugene	1919 Ag	Newton Center, Mass

Quick, Martha Edith	Spec Ag	Ithaca
Quick, Ray Lewis, M.E.	Grad	Ithaca
Quimby, George Ellis	1920 Ar	Brooklyn
Quinan, Wickham Hartzell	1920 M	Manila, P. I.
Quinby, Millicent Harriet	1919 Ag	Chappaqua
Quinlan, Alice Marie	1918 A	Port Richmond
Quinlin, Frank John	1921 Ag	Poughkeepsie
Rabi, Isidor Isaac	1920 A (Chem)	Brooklyn
Race, Hubert Hawley	1921 M	Buffalo
Rackow, Mackey	1920 A	Spring Valley
Rader, Alexander Knox, A.B., A.M.	Grad	Howard, Kansas
Radin, Raymond Jeremiah	1921 L	Hartford, Conn.
Raduciner, Joseph	1921 C	New York City
Raffloer, Ida	1919 A	New York City
Raffloer, William Rudolph Frederick	1921 M	New York City
Ramsay, James Alexander	1921 A	Yonkers
Ramsdell, James Williams	1920 Ag	Lakewood, N. J.
Rand, Ruth, A.B., A.M.	1921 M.D., Grad	Brooklyn
Rankin, Edward Stevens, jr.	1921 A	Newark, N. J.
Ranno, Dwight Boutwell	1921 M	Washington, D. C.
Raplee, Jay Wixson	1920 Ag	Ithaca
Rapley, William Washington	1921 Ag	Washington, D. C.
Rapp, Theodore George	1920 M	Delanco, N. J.
Rasbridge, Emerson Buzzard	1920 A	Reading, Pa.
Raseman, Richard Perrien	1918 Ar	Detroit, Mich.
Rasmussen, Myers Peter	1919 Ag	Melrose
Ratelle, Ruth May	1920 A	Glens Falls
Rawlins, Harold Mead	1921 A (Chem)	South Glens Falls
Ray, Herwegh	1921 L	Sussex, N. J.
Raymond, Lucia Bostwick	1919 A	Franklin
Raynarts, Sidney	1918 Ag	Rochester
Raynor, Hubert	1921 A	Warwick
Read, Barclay Kerr	1919 A (Chem)	Philadelphia, Pa.
Reavis, John Wallace	1921 L	Washington, D. C.
Rebmann, Godfrey Ruhland, jr.	1919 M	Philadelphia, Pa.
Reed, Allen Baldwin	1920 A. (Chem)	Ithaca
Reed, Basil Vincent	1921 M	Savannah
Reed, Bertha Mae	1918 Ag	Cortland
Reed, Cameron Kroh	1920 L	Kansas City, Mo.
Reed, Emily Sweetland	1918 Ag	Canandaigua
Reed, Louis Jerome	1920 A	Canandaigua
Reeder, Wilbert	1921 A (Chem)	Muncy, Pa.
Rees, Florence duBois, A.B.	1920 M.D. (N. Y. C.)	New York City
Rees, George	1919 M	Clayton
Reese, Fred Schuyler, jr.	1918 L	Ilion
Reese, Weston Roger	1919 M	Scranton, Pa.
Reesor, Mary, B.S., A.M.	1920 M.D. (N. Y. C.)	New York City
Reeves, Burnett Allen	1921 A (Chem)	Marion
Regan, Francis Aloysius, jr.	1921 C	Brooklyn
Regan, May Agatha	1921 A	New Britain, Conn.
Regan, Norma Kathryn	1919 A	New Britain, Conn.
Regensburg, Edward Joseph	1920 A	New York City
Rehfeld, Frances Eugenia Hile, A.B.	Grad	Milwaukee, Wis.
Rehm, John Henry	1921 Ag	New York City
Reid, Ada Chree Preston, A.B.	Spec M.D. (N. Y. C.)	Brooklyn
Reid, Georgia, A.B.	1920 M.D. (N. Y. C.)	New York City
Reid, Kirk Mendenhall	1919 M	Warren, O.
Reid, Kirk Mendenhall	1919 M.E.	Warren, O.
Reider, Joseph Raycroft	1920 A	Cortland
Reif, Herbert Richard	1921 Ag	Pittsburgh, Pa.
Reigart, Elizabeth Hodgson	1919 A	Yonkers
Reimer, Franz Henry	1918 M	Chicago, Ill.
Reineman, Howard Hartje	1921 M	Pittsburgh, Pa.
Reinhard, Melvin Charles	1920 V	Buffalo
Reith, Marie	1921 M	New York City
Reitzes, Morris Lewis	1919 Ag	Gloversville
Relihan, Walter Joseph	1919 Ag	Owego
Remick, Arthur Edward	1921 A (Chem)	New Rochelle
Remsen, Margaret Abbie	1921 A	Brooklyn
Renfrew, Franklin Ward, B.S.	1919 M.D. (N. Y. C.)	New York City
Reuther, Bernard Oscar	1920 Ag	Ithaca
Rex, Walter Edwin, jr.	1919 L	Philadelphia, Pa.
Royes, Hermenegilgo Balbino, A.B.	1918 M	Malolos, Bulacan, P. I.
Royes, Javier Vanga	1921 Ag	Barceloneta, Porto Rico
Reyna, Leon C.	1921 M	Ithaca
Reynolds, Almon Wentworth	1920 M	Oriskany Falls
Reynolds, Bernice Caledonia	1920 Ag	Buffalo
Reynolds, John Alva	1918 Ag	Rochester
Reynolds, Lewis Minter	1919 M	Liberty

Reynolds, Robert Norton	1918 Ag	Springville
Reznikoff, Paul, B.S.	1920 M.D. (N. Y. C.)	Brooklyn
Rhodes, Charles Elliott	1920 A	Brooklyn
Ribble, Margaretha Antoinette, B.A.	1919 M.D. (N. Y. C.)	Wytheville, Va.
Rice, Clifton Edward	1922 C	Randolph
Rice, Emory Clark	1919 M	Baltimore, Md.
Rice, Esther Myrick	1920 Ag	Burt
Rice, Harry	1921 Ag	Brooklyn
Rice, Marion Electa	1920 Ag	Homer
Rice, Randolph Packard	1921 M	Pittsburgh, Pa.
Rich, Edward Larmour, jr.	1921 Ag	Catonsville, Md.
Richards, Dorrice Anwyl	1920 A	Ithaca
Richardson, Abraham Nathaniel	1919 A	Rochester
Richardson, Lawrence, M.E.	Grad	Valley Station, Ky.
Richardson, Leon Cuthbert, jr.	1920 C	Durham, N. C.
Richardson, Solon Albert	1918 V	Franconia, N. H.
Richeson, Ruth	1920 A	Union City, Ind.
Richmond, Donald Everett	1920 A	Great Barrington, Mass.
Richmond, William Edwin	1920 M	Colorado Springs, Col.
Rickard, Donald Sims	1921 A	Summit, N. J.
Rickard, Eric Martyn	1921 M	Summit, N. J.
Ricker, Frank Gordon	1922 M	Kirkwood, Mo.
Rider, Arthur John, B.S., M.S.	Grad	Ithaca
Rider, Jonathan Benjamin	1922 Ar	Riders Mills
Riffe, Laurette Elizabeth	1921 A	Elmira
Rightmire, Delia Althea	1918 Ag	Trumansburg
Riley, Edouard Maurice	1921 M	Bellows Falls, Vt.
Riley, Frances Heisler	1919 Ag	Wilmington, Del.
Riley, John Philip	1921 C	Bellows Falls, Vt.
Riley, Ralph Lawson	1921 M	Albany, Ga.
Rinehart, Marion Colburn	1920 M	New York City
Ringe, Lester Charles	1919 L	New York City
Ringer, Michael, B.S.	1919 M.D. (N. Y. C.)	New York City
Ripley, Edward Warren, B.S.	1919 M.D. (N.Y.C.)	Brandon, Vt.
Rittershausen, August William	1921 Ag	Youngsville
Rivenburgh, Dexter Vosburgh	1920 Ag	Philmont
Roat, Robert Henry	1919 M	Clifton, N. J.
Roberts, Harvey Emmett	1919 M	East Orange, N. J.
Roberts, Marjorie Irene	1920 Ag	Lockport
Roberts, Oliver Willis	1920 L	Lockport
Roberts, Vernon Arthur	1921 Ag	Washington, D. C.
Roberts, Wendell Foster	1921 M	Stapleton
Robertson, George William MacDonald	1918 A	Brooklyn
Robertson, Lloyd Otis	1919 Ag	Churchville
Robinson, Aubrey Eugene	1920 V	Corona
Robinson, Cecil Stanley	1921 C	Ithaca
Robinson, Donald Many	1919 C	Mt. Vernon
Robinson, Ernest Guy	1918 Ag	Moore, Mont.
Robinson, Frank Howland	1921 Ar	Albany
Robinson, James Reid	1920 Ag	Springwater
Robinson, Lloyd Watson	1919 Ag	Andover
Robinson, William Eber	1918 M	Akron, O.
Robison, Ellis Howes	1918 Ag	Schenectady
Robison, George Merritt, A.B., M.A.	Grad	Mayfield
Robson, Orson Rupert	1920 Ag	Hall
Roche, Angelo James	1920 A	Penn Yan
Roden, Henry Wisdom	1919 A	Dallas, Texas
Rodger, Katharine Marie	1918 Ag	Richmond Hill
Rodwell, Ward Arthur	1919 Ag	Albion
Roenne, Henry Frank	1921 Ag	New York City
Roesse, Minna Gesine	1920 Ag	Buffalo
Roess, Gustav Frederick, jr.	1921 A (Chem)	Oil City, Pa.
Rofe, LeRoy Edward	1918 Ag	Preble
Rogers, Edna Mary	1921 A	Hammond
Rogers, William Alexander, Ph.B.	1919 M.D. (N. Y. C.)	New York City
Rombach, Fred Wilson	1921 M	Watsonstown, Pa.
Rometsch, William Henry, jr.	1921 A (Chem)	Philadelphia, Pa.
Roof, Claude Webster	1918 M	Utica
Root, Douglas Lee	1920 A	Cooperstown
Root, Helen Mariette	1921 Ar	New Orleans, La.
Root, Maurice Timothy, A.B.	1918 M.D. (N. Y. C.)	Farmington, Conn.
Roraback, Mildred Ruth	1919 A	Kinderhook
Rose, Bennett Eberhardt	1918 Ag	Saugerties
Rose, Clinton William	1921 M	Ithaca
Rose, John Alexander	1922 M	Buffalo
Rosenberg, Israel Max	1921 M	New York City
Rosenberg, Josephine Mary Robertyna	1918 A	Binghamton
Rosenbloom, Lester Max	1918 L	Rochester
Rosenblum, Jerome	1919 A	Brooklyn

Rosenblum, Joseph, B.S.	1921 M.D. (N. Y. C.)	New York City
Rosenbluth, Mathilde	1918 A	New York City
Rosenstein, Morris	1919 Ag	New York City
Ross, Adelaide Helen, B.A.	1921 M.D.	Nyack
Ross, Charles Chandler	1921 Ag	Chestnut Hill, Pa.
Ross, Harriet Frances	1919 A	Brentwood
Ross, Inez Matilda	1920 A	Brooklyn
Ross, John William	1919 Ar	New York City
Rotunda, Dominick Peter	1918 A	Dunkirk
Rouse, Charles	1921 Ag	Ithaca
Roush, William Luther	1918 M	Huntington, W. Va.
Roux, Louise Martha	1920 Ag	Newark, N. J.
Rowan, Eugene Joseph, jr.	1920 Ag	London, Ont., Can.
Rowlee, Silence	1920 A	Ithaca
Royce, Esther Tibbitt, B.S.	1918 Ag	Ithaca
Royce, Louise I.	1921 Ag	Depeyster
Royce, Milton Pettis	1920 Ag	Ithaca
Rubenstein, Joseph	1920 Ag	Brooklyn
Rubin, Abner Joseph	1919 A	Milwaukee, Wis.
Rubin, Elias	1920 A (Chem)	Brooklyn
Rubin, Henry	1918 A	Newark, N. J.
Rubinfeld, William	1921 A	Jersey City, N. J.
Rubinow, Leonora Blanche	1920 A	Newark, N. J.
Ruby, Howard Everett	1920 Ag	Oneida
Rulifson, Edith Myra	1918 Ag	Mumford
Rundlett, Edwin Albert	1919 Ag	Tompkinsville
Rupert, Philip Douglas	1920 Ag	Seneca
Rurode, William	1920 A (Chem)	Jersey City, N. J.
Russell, Edwin Philip, A.B.	1920 M.D. (N. Y. C.)	Crown Point
Russell, Ernest Frederick	1920 M.D. (N.Y.C.)	White Plains
Russell, George Henry	1919 Ag	Winthrop
Russell, Maurice Spencer	1918 Ag	Carbondale, Pa.
Russell, Paul Farr, A.B.	1921 M.D. (N. Y. C.)	Lawrence, Mass.
Rutan, Everett John	1919 M	Brooklyn
Rutenber, Charles Blackmer	1921 A (Chem)	Penn Yan
Ryan, Effie Dunn	1919 A	Ardmore, Pa.
Ryan, Phil	1920 M	Helena, Mont.
Ryder, Morton, A.B.	1918 M.D. (N. Y. C.)	Carmel
Rynalski, Henryk	1919 A (Chem)	Fredonia
Rynearson, Lucy	1921 A	Newark
Saam, George Willian Anton	1921 L	Brooklyn
Sabath, Charles Benjamin	1921 Ag	Brooklyn
Sachs, Kelvin Norman	1920 M	Hartford, Conn.
Sack, Samuel Albert	1920 L	Hartford, Conn.
Salcedo, Hernando	1921 V	Bogota, Colombia, S. A.
Salmow, Daniel	1918 M	Brooklyn
Saltmarsh, Frances Morse	1921 A	Troy, Pa.
Sampson, Archer Maddy	1919 M	Muncie, Ind.
Sampson, Gertrude Sargent	1919 Ag	Mt. Vernon
Samson, Hector Bradford	1921 M	Dunmore, Pa.
Samuels, Louis David	1918 Ag	Mt. Vernon
Sanders, Edward Berrien	1921 Ag	Ritter, S. C.
Sandford, Craig	1921 Ag	Flushing
Sands, Beatrice	1919 A	Kennedy
Sands, Evarts Foster	1921 A	Morristown, N. J.
Sandford, Vernon Gulick	1919 Ag	Sherman
Santoro, Grace Marie	1921 A	Waterbury, Conn.
Saperston, Alfred Morton	1919 L	Buffalo
Saperston, Howard Truman	1921 A	Buffalo
Saphir, Herbert	1919 A	Brooklyn
Sarafian, John Richard	1920 A (Chem)	Woodhaven
Saunders, Floyd Cary	1921 Ag	Athol Springs
Sauters, Thomas Espy, jr.	1921 A	Martins Ferry, O.
Sauters, William Frederic	1920 A	Cleveland, O.
Savage, Augustus Grey	1919 A	Warren, Ark.
Savage, Bettina True	Spec Ag	Marshfield Hills, Mass.
Savage, Edward Lindley	1921 Ag	Hempstead
Sawyer, Helen	1919 A	Terre Haute, Ind.
Saxe, Gladys	1921 A	Lansdale, Pa.
Scacciaferro, Salvator John	1921 C	West New York, N. J.
Scammell, Robert Jesse	1920 Ag	LaFayette
Schaaf, James Edward	1919 Ag	Nutley, N. J.
Schachter, Maurice Frank, B.S., M.A.	1921 M.D. (N. Y. C.)	Brooklyn
Schack, William	1919 A (Chem)	Brooklyn
Schade, John Alan	1921 A (Chem)	Holyoke, Mass.
Schaefer, Carl	1919 Ag	Thompkinsville
Schaefer, Frederick LeRoy	1918 M	Cincinnati, O.
Schaefer, John Jacob Vogt	1921 C	Pleasantville
Schaeffer, Ralph William, B.S.	1921 M.D. (N. Y. C.)	Rochester

Schaffer, Isidor Moses	1919 A	Mt. Vernon
Schedler, Herbert Donald	1921 L	Jersey City, N. J.
Scheer, Archie Donald	1918 A	Newark
Schedler, Bernardine Veronica	1918 A	Mansfield, O.
Schelleng, John Christopher, A.B.	Grad	Ithaca
Schempf, Robert	1920 C	New York City
von Schenk, Karl Richard	1919 Ag	Rockville, Conn.
von Schenk, Kurt, A.B., M.S. in Agr.	Grad	Ithaca
Schenck, Marcia Farnham	1921 Ag	Madison, N. J.
Schenck, Samuel George	1920 A	Brooklyn
Scherago, Morris, B.S.	1919 V	Brooklyn
Schermerhorn, Cornelia Mary	1921 A	Penfield
Schindler, Theresa Elizabeth, B.A.	Grad	Gloversville
Schlesinger, Charles Jackson	1919 Ag	New York City
Schlesinger, Edward, B.S.	1921 M.D. (N. Y. C.)	New York City
Schlitz, Karl Washington	1918 A	Brooklyn
Schlobohm, Elsa Carolyn	1921 A	Yonkers
Schmid, John Haviland	1919 L	Montclair, N. J.
Schmid, Julius Carl, jr.	1920 A (Chem)	Montgomery
Schmid, Walter	1918 M	Kingston
Schmidt, August, jr.	1919 M	Ithaca
Schmidt, Dagmar Alfvén	1918 A	Ithaca
Schmidt, Francis Joseph	1921 A	Auburn
Schmidt, Henry George	1919 Ag	Richmond Hill
Schmidt, Margaret Veronica	1921 A	New York City
Schmidt, Olive Josephine	1918 L	Spring Valley
Schmidt, Walter Schoellkopf	1921 A	Buffalo
Schmidt, William Stouffer	1920 M	Bellefonte, Pa.
Schmitt, Charles Henry	1919 Ag	Ithaca
Schmutz, Frederick Charles	1919 A (Chem)	West Hoboken, N. J.
Schnee, Vernon Higgs	1919 A	Cleveland, O.
Schneider, Jerome George Frederick	1921 A (Chem)	New York City
Schnirel, Anna Elizabeth	1918 A	Geneva
Schoeffler, Freida Helena	1918 A	Schenectady
Schoellkopf, William Graebe	1919 A	Buffalo
Schoenfeld, Adele	1921 A	Cortland
Schrader, Helen Margaret	1919 A	Plattsburg
Schrankel, Rupert Albert	1919 A	Buffalo
Schroeder, Henry Joseph, jr.	1919 Ag	Saugerties
Schroeder, Lloyd Herman	1919 Ag	New York City
Schroeter, Robert Huber	1919 M	Marion, O.
Schultz, David	1918 A (Chem)	New York City
Schultz, Harold Lawton	1921 A (Chem)	Ridgway, Pa.
Schultz, Peter Alphons	1919 A	Buffalo
Schulz, Eric Theodore	1920 A (Chem)	Wilkes-Barre, Pa.
Schumann, Anna Voorhees	1918 Ag	Rushville
Schustek, Irving	1920 A	New York City
Schutte, Henry Clarence	1919 A (Chem)	West New Brighton
Schuyler, Louise Alma	1919 Ag	Camillus
Schwadron, Samuel, B.A.	1919 M.D. (N. Y. C.)	New York City
Schwager, Harry Leon	1920 Ag	Wilkes-Barre, Pa.
Schwamm, George, jr.	1921 V	New York City
Schwarte, Louis Harold	1918 Ag	Saratoga Springs
Schwartz, Irving, B.S.	1921 M.D. (N. Y. C.)	New York City
Schwartz, Samuel	1921 Ag	Brooklyn
Schwartzreich, Sol	1920 M	New York City
Schweitzer, Grethen	1921 A	Brooklyn
Schweitzer, Thomas Robert	1919 Ag	Brooklyn
Scott, Edith	1919 A	Englewood, N. J.
Scott, Merit	1920 A	Glens Falls
Scott, Walter Lee	1919 A	Franklin, Pa.
Scureman, Harry Wilt	1921 A (Chem)	Kingston, Pa.
Scutt, Dana Rolland	1919 V	Olean
Seabrook, William Henry	1918 V	Brooklyn
Seager, Lydia Amanda	1919 A	South Orange, N. J.
Seaman, Helen, B.A.	Grad	Freeport
Searles, Frances Elizabeth Willard	1918 Ag	Montour Falls
Searles, Sarah Naomi	1921 A	Cedarhurst, L. I.
Seeger, Eva May	1918 A	Chatham
Seelbach, Charles George	1919 Ag	Buffalo
Seely, Homer Russell	1919 C	Springfield, Mass.
Seep, Joseph, 2d.	1921 M	Oil City, Pa.
Seibold, Carl Stephen	1919 M	Rochester
Seidman, Solomon	1919 M	New York City
Seifreat, Edgar John	1921 M	Dayton, O.
Sein-Cebollero, Francisco	1919 A	Lares, P. R.
Selden, Marian Minerva	1918 Ag	Rome
Selee, Richardson	1922 C	Harrison
Seley, Samson Abraham	1918 A, 1921 M.D.	Brooklyn
Seligman, Anne May, A.B.	1920 M.D. (N. Y. C.)	Keyport, N. J.

Selkirk, Anna Regina	1918 A	Brooklyn
Selover, Newton Post	1922 M	Brooklyn
Senecal, Henry Jess	1918 C	Watertown
Senn, Isabel Ruth	1918 A	Batavia
Serrano, Luis	1919 Ag	Quito, Ecuador, S. A.
Settle, Charles Jay, jr.	1919 Ag	Cobleskill
Severance, Mildred, A.B.	Grad	Buffalo
Severinghaus, Leslie Richard	1921 A	Wheeling, W. Va.
Seward, Gertrude North	1919 Ag	Binghamton
Sewell, Oscar James	1919 C	Olive Hill, Ky.
Seyfried, Francis Charles	1921 Ag	Rochester
Shackleton, Horace Ellsworth	1919 A	Buffalo
Shadle, Albert Ray, B.A., M.A.	Grad	Lockbourne, O.
Shagrin, Maud	1921 A	New York City
Shallow, Edward Byrne, jr.	1921 A	Brooklyn
Shanahan, James Edward	1920 L	Amsterdam
Shaner, Bernard King	1921 M	New York City
Shanks, William Grant	1919 Ag	New York City
Shapiro, Bernard Joseph	1919 A	Brooklyn
Shapiro, Caspar	1920 A (Chem)	Brooklyn
Shapiro, Israel	1921 Ag	New York City
Sharrett, Helen Miriam	1920 A	Port Richmond
Shaver, Edwin Roy	1921 A (Chem)	Philmont
Shaw, John Balcolm, jr.	1921 A	Elmira
Shaw, Joseph Phippin	1919 A	Wheaton, Ill.
Shaw, Kenneth Marshall	1920 A	Denver, Colo.
Shaw, Stanley Newman	1918 A	Denver, Colo.
Shearer, Harold Milton	1921 A	Ithaca
Shearer, Howard John	1921 A	Ithaca
Sheffer, Mitchell	1920 A (Chem)	Mamaroneck
Shelton, Gertrude Mary	1920 A	Owego
Shemin, Ralph	1921 Ag	New York City
Shen, Liang Hua	1918 M	Shanghai, China
Shepard, Emily Eloise	1920 Ag	Honeoye Falls
Sherburne, Arthur John	1918 A (Chem)	Schenectady
Sherer, Edwin Collins	1921 M	Chattanooga, Tenn.
Sheridan, John Edward	1919 L	Penn Yan
Sheridan, Joseph Talbot, B.A.	Grad	Richmond Hill
Sheridan, Mary Elizabeth	1921 Ag	Ithaca
Sherk, Earl Jacob	1921 C	Harrisburg, Pa.
Sherman, Horace Arthur	1920 A	Livonia
Sherman, Kenneth Ralph	1922 M	Sag Harbor
Sherwood, Coleman Hobart	1920 Ar	Yonkers
Shevalier, Marion Kathryn	1920 Ag	Ithaca
Shiffer, Joseph	1920 A	Brooklyn
Shindler, Max	1920 A	Hurleyville
Shipman, Samuel Saul	1918 C	Brooklyn
Shore, Frederick	1920 M	Waterbury, Conn.
Short, Clifton Max	1921 M	Potchefstroom, South Africa
Shoulkin Simon	1919 V	Brooklyn
Shull, Leonard Monroe	1922 M	Shortsville
Shultis, Marshall Grant	1921 Ag	Milford
Shults, Erna Rose	1920 A	Cohocton
Shultz, Searles Gregory	1920 L	Skaneateles
Shumway, Harold Lester	1921 M	Ithaca
Sibley, Charles Kerr	1920 Ag	Kingston
Sidman, Irving Nathan	1921 A	Brooklyn
Sidway, James	1922 M	Syracuse
Sie, William Kia-Shen, B.A., M.S	Grad	Wuhu, Anhwei, China
Siebert, Willard Wilson	1921 M	Pittsburgh, Pa.
Siegel, Louis Carl	1920 Ag	Brooklyn
Siegel, Maxwell Mordecai	1919 L	Elmira
Siering, Robert LeRoy	1921 Ar	New York City
Signor, Elizabeth Arnold	1920 A	Plattsburg
Sigsby, Robert Ernest	1919 Ag	Saratoga Springs
Silva, George	1919 M	Santiago, Chile
Silvers, Lewis Julian	1921 M.D. (N.Y.C.)	New York City
Simelowitz, Aaron	1920 L	New Rochelle
Simmons, Harvey Dann	1921 M	Delhi
Simmons, Rosine Ruth	1919 L	Williamsport, Pa.
Simonds, John Francis	1921 A (Chem)	Brooklyn
Simonds, Walter Wesley	1921 Ag	Rochester
Simons, Mayrant	1921 M	Summerville, S. C.
Simpson, Arthur Fred	1919 Ag	Buffalo
Simpson, Arthur Winfield	1920 C	New York City
Simpson, Edith Maude	1920 A	New York City
Simpson, Harold Eugene	1919 L	New York Mills
Simpson, Kenneth Franklin	1920 L	Onawa, Iowa
Simpson, Sutherland Eric Rognvald	1921 A	Ithaca
Singer, Barrett	1921 L	Amsterdam

Singleton, Edward Clary	1921 M	St. Louis, Mo.
Sirrinc, Horace Stilwell	1918 A	Trumansburg
Sisson, Howard Spencer	1918 Ag	Sherburne
Skelding, Paul	1919 A	Southbury, Conn.
Skinner, Robert Gates	1919 M	Lakewood
Skinner, Winifred	1918 A	Rochester
Slack, Anna Victoria	Spec A	Carthage
Sleicher, Paul	1921 A (Chem)	Albany
Smeallie, Henry Wallace	1921 A (Chem)	Amsterdam
Smellow, Josephine Rosamond	1921 A	Philadelphia, Pa.
Smiley, Dean Franklin, A.B.	1919 M.D. (N. Y. C.)	Brooklyn
Smiley, Edwina Maria, B.A.	Grad	Mansfield, Mass.
Smith, Ainsworth Lockhart	1919 A	Brooklyn
Smith, Alanson Follansbee	1921 M	Milwaukee, Wis.
Smith, Alexander Wesley	1921 A	Shelter Island Heights
Smith, Alger James	1921 C	Ithaca
Smith, Alice Louise	1920 A	Cornwallville
Smith, Alise Welthy	1921 Ag	Groton
Smith, Alpheus Waldo	1919 A	Ithaca
Smith, Benjamin Harrison, A.B.	Grad	New Richmond, Ind.
Smith, Clarence Louis	Spec Ar	Portland, Ore.
Smith, Dana Conrad	1920 L	Minneapolis, Minn.
Smith, Donald Ormsby	1919 A	Buffalo
Smith, Earl D.	1920 V	Cortland
Smith, Elliot Boughton	1920 M	Rochester
Smith, Elmer	1921 Ag	Clarksboro, N. J.
Smith, Elmer Herbert	1918 Ag	Deerfield
Smith, Ernest Edward, A.B.	Grad	Skaneateles
Smith, Eugene Russell	1920 Ag	Monroe
Smith, Ewald John Joseph	1921 L	Jersey City, N. J.
Smith, Fenner Carlton	1918 V	Ithaca
Smith, Fred Manning, A.B.,	Grad	Huntington, W. Va.
Smith, George Herbert	1918 Ar	Ithaca
Smith, Harriet Alison	1921 Ag	Buffalo
Smith, Helen Josephine	1921 Ag	Attica
Smith, Henry Clay	1919 Ag	Freeville
Smith, Irving Carleton	1920 A	Lowville
Smith, Jacob, B.S.	1920 M.D. (N. Y. C.)	Brooklyn
Smith, James Wallace	1918 Ag	Lakewood, O.
Smith, John Lampman	1921 A	Craryville
Smith, McNeir	1920 M	Washington, D. C.
Smith, Marion Dunham	1920 A	Greene
Smith, Mary Florence	1919 A	Verona, N. J.
Smith, Maurice Frank	1920 M	Rome
Smith, Milton, jr.	1921 A	Denver, Colo.
Smith, R. Wallace	1920 Ag	Ithaca
Smith, Ralph Harry	1921 A	Pittsburgh, Pa.
Smith, Raymond Stratton, B.S., B.S. in Agr., M.S.,	Grad	Monrovia, Cal.
Smith, Robert Alfred	1918 A	Buffalo
Smith, Russell Lloyd	1919 C	Brooklyn
Smith, Seward Marcus	1921 M	Wilkes-Barre, Pa.
Smith, Stanley Wallace	1920 Ag	Whitestone
Smith, Walter Fox	1918 A, 1921 M.D.	Watertown
Smith, William Dudley, A.B.	1918 L	Schenectady
Smith, William Randolph, A.B.	1919 M.D. (N. Y. C.)	Brooklyn
Smyth, James Aloysius	1921 A	Corona
Smyth, Lois Elizabeth	1920 Ag	Waco, Texas
Snedeker, Alfred William	1921 A	West New Brighton
Sniffen, Josephine Augusta	1921 A	White Plains
Snow, Ralph	1918 V	Central Square
Snowden, John Wiegand, 3d.	1921 Ag	New York City
Snyder, Bernard Clark	Spec Ag	Machias Junction
Snyder, Robert Yarnell	1920 A	Elmira
Snyder, Victor Joseph	1921 Ag	Harrisburg, Pa.
Snyder, Walter C.	1918 V	Ithaca
Sobol, Bernard	1921 A (Chem)	[New York City
Sohon, Julian Arell	1918 A (Chem)	New York City
Solomon, Edward Lawrence	1920 M	Beaver Falls, Pa.
Solomon, Samuel Joseph	1920 A	New York City
Solovay, Benjamin	1919 A (Chem)	Brooklyn
Solowey, Israel Lawrence	1922 C	New York City
Solowey, Solomon	1921 A	New York City
Sommerville, James Harris	1921 A (Chem)	Canajoharie
Soo, Chi Jen	1920 C	Shansi, China
Sorokin, Marcus	1919 C	Rostoff-on-Don, Russia
Soskin, William	1919 Ag	New York City
Souter, Charles Edward	1920 A	Whitehall
Souter, Martha Chandley	1921 A	Whitehall
Spaeth, John Nelson	1919 Ag	Rochester
Spayd, Milferd Aaron	1921 A (Chem)	Van Wert, O.

Spear, Robert Duroy	1919 M	New York City
Speelman, William Allen, jr.	1921 A	Oak Park, Ill.
Speer, Franklin Raub	1921 M	Washington, D. C.
Speer, Sara Elizabeth	1921 Ag	Washington, D. C.
Speiden, Katherine Douglas, B.A.	1921 M.D.	Summit, N. J.
Spencer, Charles Hart, jr.	1919 Ag	Pittsburgh, Pa.
Spencer, Elmer George	1920 Ag	Vergennes, Vt.
Spencer, George De Esterre	1919 Ag	Brooklyn
Spencer, Jennie Phillips	1921 Ag	Lisle
Spencer, Leland	1918 Ag	Elmira
Spencer, Vera Eugenia	1919 A	Sayre, Pa.
Sperry, Warren Myron	1921 A (Chem)	Lincoln Park
Spicer, Hobart McKinley	1920 M	Norwich
Spiegelberg, George Alfred	1918 A	New York City
Spielman, David Bernat	1920 L	Brooklyn
Spindler, Abraham Morris, B.A.	1918 M.D. (N. Y. C.)	New York City
Spindler, Mabel Clara	1918 Ag	Olean
Spindler, Norman John	1921 M	Olean
Spitzer, Abraham Lewis	1920 A	Perth Amboy, N.J.
Spivak, William	1920 C	Brooklyn
Splane, Alvin William	1921 M	Oil City, Pa.
Sprague, Florence Elma	1920 Ag	Roscoe
Sprague, Genevieve Mina	1919 A	Memphis, Tenn.
Sprong, Whyland DeLos	1920 Ag	Sodus
Srenco, Grace Elizabeth	1920 A	Rochester
Staab, Evelyn Antoinette	1921 Ag	New York City
Stacy, Helen Emily	1920 A	St. Regis Falls
Stacy, Thomas Ford	1918 A	Springfield, Ill.
Staebler, Karl Merner	1918 Ag	Brooklyn
Stafford, Ellis Carlton	1918 V	Cortland
Stanbro, Marie Adelaide	1921 Ag	Springville
Standish, Gerald	1919 M	New York City
Stankiewicz, Helen	1921 A	Buffalo
Stanton, Clifford Alfred	1918 A	Cortland
Stanton, George Harold	1920 Ag	Glen Ridge, N. J.
Stanton, Nathaniel Brown, A.B.	1920 M.D. (N. Y. C.)	Bath
Staplin, Bayard Howe	1920 Ag	Mannsville
Stark, Jesse David	1921 A	Brooklyn
Starke, Ralph Gustave	1919 A	New York City
Starr, Raymond Terry	1921 M	New York City
Starrett, Clara Covert	1918 A	Interlaken
Stasch, Dorothy	1921 A	Ithaca
Staub, Percival Hoag	1921 A (Chem)	Wellsboro, Pa.
Steel, Robert Wenzing	1921 A (Chem)	Lansdowne, Pa.
Steer, Elizabeth Alice, A.B.	1920 Ag	Albany
Steer, Margaret Eleanor	1919 Ag	Albany
Steffens, Frederick Robinson	1920 Ar	Washington, D. C.
Steffens, Herbert George	1918 Ag	Brooklyn
Stein, Samuel	1918 A	Hartford, Conn.
Steiner, Sydney Kendall	1920 A (Chem)	New York City
Steiner, Violet Catherine	1921 A	Brooklyn
Steinhoff, Samuel Henry	1921 A	New York City
Steinmann, Milton Bode	1921 Ar	Rochester
Steinmetz, Richard Bird	1921 M	Brooklyn
Steinrock, Franklin Kern	1919 M	Port Richmond
Steinsky, Hyman	1920 A	Brooklyn
Stempfle, William Secord	1919 Ag	Elmira
Stentiford, Clara Harriet	1920 A	Ossining-on-Hudson
Stephenson, Hadley Caruthers	1920 V	Ogdensburg
Sterling, Joseph	1921 Ag	Oyster Bay
Stern, George	1919 A (Chem)	Forestville, Conn.
Stern, Jeno	1921 C	New York City
Sternbach, Jacob Joel	1920 C	New York City
Stevens, Donald Raymond	1920 A (Chem)	Gary, Ind.
Stevens, Gurdon Bull	1918 Ag	Granville
Stevens, Lillian Avis	1918 Ag	Homer
Stevens, Mildred Margaret	1918 Ag	Oswego
Stevens, Robert William	1920 Ar	Huntington, Ind.
Stevens, Trystram Cockey	1921 Ag	Stevensville, Md.
Stevens, William Peter	1920 Ag	Greenville
Stevenson, Warren Allen	1921 M	Nelsonville
Stewart, Chauncey Judd	1919 Ag	Plainfield, N. J.
Stewart, Dorothy	1921 A	New York City
Stewart, Fred Waldorf, A.B.	Grad	Binghamton
Stewart, Harland Hubbard	1920 M	Geneva
Stewart, Kenneth Max	1920 A	Freeville
Stewart, Leon Wendell	1918 M	Bainbridge
Stewart, Ralph Berry, B.S., M.E.	Grad	Pelzer, S. C.
Stewart, Robert George, B.S.	1921 M.D. (N. Y. C.)	Jersey City, N. J.
Stibolt, Carl Beiderbecke	1919 A	Davenport, Ia.

Stickelmyer, Ellen May	1919 Ag	Troy
Stine, George Haerberle	1919 A	Niagara Falls
Stebbs, William Malcolm, A.B.	Grad	Ithaca
Stobo, Jeannette Russell, A.B.	1918 M.D. (N. Y. C.)	New York City
Stockett, John Wesley, jr.	1920 A (Chem)	Washington, D. C.
Stokes, Arthur McGrath, A.B.	1919 M.D. (N. Y. C.)	Union Hill
Stokoe, Edith Elizabeth	1920 A	Scottsville
Stolz, Alexander Francis	1918 C	Yonkers
Stone, Edward Stanley	1918 V	Ithaca
Stone, Elmore Becker	1919 Ag	Dolgeville
Stone, George	1919 M	Wilmington, Del.
Stone, Harry Watson	1920 Ar	Charleroi, Pa.
Stone, Jane	1921 Ag	Syracuse
Stone, Linton	1921 A	Wilmington, Del.
Stork, Harvey Elmer, A.B., A.M.	Grad	Ithaca
Storrs, Will Carleton	1919 Ag	Madrid
Story, Robert Knight, jr.	1919 L	Brooklyn
Stott, Charles Albert	1919 C	Washington, D. C.
Stetz, William Forrester	1920 A (Chem)	Crafton, Pa.
Steuffer, Paul Metcalfe	1918 A (Chem)	Mercersburg, Pa.
Stoughton, Wilford Francis	1921 Ag	Newark Valley
Stout, Frederick Eugene	1920 L	Interlaken
Stover, Albert, jr., A.B.	Grad	Buffalo
Stover, Oscar Hayen	1920 A	Buffalo
Stowers, Janette Porter	1922 Ar	Oxford, Miss.
Stratton, Lewis Hubert	1921 Ag	Oxford
Straus, Felix Milton	1921 L	Peoria, Ill.
Straus, Henry Horner	1920 A	Chicago, Ill.
Strauss, John Noble	1920 M	New York City
Street, Alice Juliet	1920 A	Rochester
Strong, Carol Georgiana	1920 A	Turin
Strong, Frances Miriam	1919 Ag	Knoxboro
Strong, James Louis	1919 A	Turin
Strotz, Sidney Nicholas	1921 L	Winnetka, Ill.
Strumer, Julius	1921 Ag	New York City
Strunk, William Oliver	1921 A	Ithaca
Stuart, Lyman Knight	1921 A (Chem)	Newark
Stuft, John Walter	1919 A	Boswell, Pa.
Stuhs, Duncan Elliott	1920 Ag	Morristown, N. J.
Sturges, Herbert Arthur, A.B., A.M.	Grad	Mansfield, O.
Sturrock, John	1918 Ag, 1920 V	Ithaca
Suffin, Rosalie	1921 A	New York City
Suiter, Vaughn Douglas	1920 M	Shamokin, Pa.
Sullivan, Edmund	1921 A	Little Falls
Sullivan, Ernest Vaughan	1919 Ag	Deansboro
Sullivan, Eugene Bernard	1918 Ag	New York City
Sullivan, George Deway	1921 L	Mohawk
Sullivan, Michel Gerald	1921 C	Rochester
Sullivan, Paul Livingston	1918 M	Winnipeg, Canada
Sullivan, Philip Lawrence	1918 C	Springfield, Mass.
Sullivan, William Leo	1919 A (Chem)	Binghamton
Sultan, Fred William, jr.	1919 M	St. Louis, Mo.
Sun, Yu Faung Russell	1920 Ag	Shanghai, China
Sun, Yu-Fong	1918 C	Tientsin, China
Sundel, Saul Howard	1919 L	New York City
Sundstrom, Charles Alfred, jr.	1921 C	Middletown
Sundstrom, Pierre Allen	1921 A	Middletown
Supplee, George Cornell, B.S., M.S. in Agr.	Grad	Ithaca
Sutherland, Andrew Gates	1922 C	Ithaca
Sutton, Glenn William	1918 Ag	Dansville
Sutton, Harry William	1921 V	Sidney Centre
Sutton, Henry Bruner, A.B.	Grad	Albion
Sutton, John Edward, jr., A.B.	1920 M.D. (N. Y. C.)	Albion
Swabey, William Curtis, A.B.	Grad	Riverside, Ill.
Swanson, Ralph Edwin	1920 Ag	Dunkirk
Swanson, Sigurd Benedict	1920 M	Bridgeport, Conn.
Swanton, William Talbot	1919 L	Youngstown, O.
Swartz, Anna Mary	1918 A	Monsey
Swartz, Burton LeRoy	1918 A	Lyons Falls
Swartz, DeWitt Frank	1919 M	Findley Lake
Sweeney, Emmett Thomas	1920 A	Long Island City
Sweet, George Clinton, jr.	1918 Ag	Buffalo
Sweetser, George Theodore	1920 M	New York City
Swezey, Fenton Hendy	1920 A	Ripley
Swift, Freeman Robert	1921 Ag	Mt. Vernon
Swirbul, Leon	1920 M	Sag Harbor
Switzer, Virginia Watson	1919 A	Staunton, Va.
Sylvester, William Boyd	1919 Ag	Black River
Syracuse, Antoinette	1921 A	Rochester
Szymoniak, Thaddeus	1919 Ag	Ithaca

Taft, Lyman Herbert, jr.	1918 Ag	Montgomery
Tai, Fang Lan	1918 Ag	Shasi, China
Taliaferro, Donald Francis	1922 M	Topeka, Kans.
Tallman, Nellie Grace	1920 A	Mt. Morris
Tamen, Bernard Morris	1921 Ag	New York City
Tan, Shao-Fan	1921 A (Chem)	Shanghai, China
Tan, Vidal Arceo, A.B.	Grad	Bacolor, Pampanga, P. I.
Tang, Chen-Long	1920 C	Chi-Shii, Hupeh, China
Tang, Min Kao	1918 M	Chungking, China
Tapke, Victor Ferdinand, B.Sc. in Agr.	Grad	Ithaca
Tarbell, Joseph Barton	Spec Ag	Franklinville
Tarbell, Louise	1921 A	Ithaca
Tarchini, Guido	1920 M	Santiago del Estero, Argentina
Tarr, Albert Jacob	1918 V	Waterloo
Taub, Joel	1920 A (Chem)	Newark, N. J.
Tavares, Gustavo Antonio	1918 Ag	Santiago, Dominican Republic, W. I.
Tavares, John Thomas	1918 C	New York City
Taylor, Alfred Leslie	1919 A	Varna
Taylor, Bayard Eugene	1922 M	Oak Park, Ill.
Taylor, Clayton Charles, jr.	1920 Ag	Lawtons
Taylor, Donald Fay	1921 V	Albany
Taylor, Edward Winthrop	1921 M	Chicago, Ill.
Taylor, Harry Stanley	1919 L	McKean, Va.
Taylor, Helen Laura	1920 A	Methuen, Mass.
Taylor, Henry Leary	1920 M	Roland Park, Md.
Taylor, Joseph Martin	1921 Ag	Corry, Pa.
Taylor, Kenneth Hutchinson	1920 Ar	South Norwalk, Conn.
Teck, Joseph	1919 Ag	New York City
Teed, Ralph Herman	1921 M	Springfield, Mo.
Teeter, Sidney Monroe	1920 A	New York City
Teipel, Albert Henry	Spec Ar	Cincinnati, O.
Teitler, Jacob	1920 Ag	Brooklyn
Teixeira, Wicar Goes	1919 Ag	Pará, Brazil
Ten Eick, Charles Watson	1920 Ag	New York City
Tennygold, Kopple	1920 M	Saratoga Springs
TerBush, Emery Boyce	1919 Ag	Greenfield
Terescewitz, Joe	1921 M	Wilkes-Barre, Pa.
Terrill, Leslie Roy	1918 C	Copenhagen
Terry, Leon, B.S., M.A.	1921 M.D. (N. Y. C.)	Springfield, Mass.
Terry, Whitelaw Todd	1921 A	St. Louis, Mo.
Terwilliger, Norbury	1921 A	Ellenville
Thearle, Ernest Lathrop	Spec M	Chula Vista, Cal.
Theye, Charles Manuel, jr.	1920 M	Havana, Cuba
Thilly, Margaret	1921 A	Ithaca
Thomas, Alice Elizabeth	1921 A	Elmhurst
Thomas, Cecil Calvert, A.B., M.A.	Grad	Ithaca
Thomas, Charles Kenneth	1921 A	Baldwin
Thomas, Charles Sparks	1919 A	Los Angeles, Cal.
Thomas, Cora Belle	1920 A	Utica
Thomas, Edwin Hewes	1918 A (Chem)	Wilmington, Del.
Thomas, Frank Howard, jr.	1921 A (Chem)	Wilmington, Del.
Thomas, Raymond Einnon	1921 A (Chem)	Yonkers
Thomas, Robert Mathias	1921 M	Joliet, Ill.
Thomas, Robert White	1919 Ag	Rochester
Thomas, William Raymond	1921 C	Washington, D. C.
Thompson, Chauncey Boardman	1921 M	Hartford, Conn.
Thompson, Frederick William	1919 Ag	Brooklyn
Thompson, Hugh Lincoln	1918 M	Kansas City, Mo.
Thompson, Merrill Needham	1921 Ag	Amherst, Mass.
Thompson, Neva Jeanette	1920 Ag	Ithaca
Thompson, Ralph Perrin	1921 M	Winter Haven, Fla.
Thompson, Richard Nelson	1918 A	Fall River, Mass.
Thompson, Richard Yoder, A.B.	1918 M.D. (N. Y. C.)	West Point, Nebr.
Thompson, Sawyer	1919 A	Brooklyn
Thompson, William Delmore	1918 M	Freneau, N. J.
Thomson, Alexander Bayard	1921 Ag	Buffalo
Thorne, James Turner	1922 C	Malden, Mass.
Thorne, Ralph Weymouth	1921 M	Williamsport, Pa.
Thornton, George Hilyard	1921 M	Wayne, Pa.
Thorp, Katherine	1919 A	West Roxbury, Mass.
Thropp, May Ashmore	1920 A	Trenton, N. J.
Tibbets, Harry Landstreet	1922 M	Keyser, W. Va.
Tibbitts, Carl Herbert	1920 A	Watkins
Tibbott, Edward Winship	1919 Ag	Washington, D. C.
Tierney, John Francis, jr.	1921 C	Middletown, N. J.
Tiffany, Byram Carroll	1920 Ag	Washington, D. C.
Tilley, Lloyd Henry	1919 M	Buffalo
Tingley, Abbie Stuart	1920 Ag	Washington, D. C.
Tinkham, Norman Richard	1918 Ar	Jamestown
Tinkler, Louis	1921 A	Brooklyn

Tobey, Clinton Russell	1918 M	Walton
Tobey, Edward Sprague	1919 Ag	New York City
Tomfohrde, Albert Michael, B.A.	Grad	Houston, Tex.
Tomic, Charles John	1921 L	Plymouth, Pa.
Tompkins, Stanley Armstrong	1919 Ag	Rochester
Tompkins, Wendell Dransfield	1920 M	Rochester
Topkins, Eva	1920 A	Califon, N. J.
Toplitt, Abraham	1921 A	New York City
Torbert, Hazel Augusta	1919 Ag	Interlaken
Tortora, Angelo Joseph	1920 Ag	New York City
Toussaint, Richard Philip	1919 M	New York City
Townsend, Clarence Ellsworth	1919 Ag	Ithaca
Townsend, Emma Natalie	1919 A	New Brighton
Townsend, Leslie Bower	1920 A	Ithaca
Townsend, Muriel Lillian	1921 A	Niagara Falls, Ont.
Townsend, Walter Barton	1921 A	Elmira
Tozer, Frank Wallace	1921 C	Ithaca
Tracy, Molly Josephine	1921 A	Tenafly, N. J.
Travell, Arthur Warren	1921 A	New York City
Traver, Jay R.	1918 A	Willoughby, O.
Travis, Reed Pelton	1920 Ag	East Stroudsburg, Pa.
Traxel, Emma Jane, B.S., A.M.	Grad	Rome
Tregurtha, James David	1918 Ag	Schenectady
Treman, Allan Hosie	1921 A	Ithaca
Tressler, Katherine Marjorie	1918 A	Montpelier, O.
Trethaway, Charles Broad	1921 A	Wilkes-Barre, Pa.
Trethaway, Joseph David	1919 M	Wilkes-Barre, Pa.
Tripp, Lynn Howard	1918 V	Plattsburg
Tripp, Violet Laura	1921 A	Glens Falls
Tritschler, Morris William	1920 V	Cincinnati, O.
Tropp, Sonia Deborah	1921 Ag	New York City
Trostler, Herma Marie	1921 A	New York City
Trousdale, Theodore McKee	1920 A	Ithaca
Trowbridge, Alexander Buel, jr.	1920 A	New York City
Trowbridge, Sherman	1919 A	New York City
Truax, Crofton, Fox	1920 Ag	Ithaca
True, Ellwood Landis	1920 Ag	Adams Basin
Truthan, Edwin Julius	1919 Ar	Cleveland, O.
Tsai, Ju-Yi	1921 C	Tsing Chau, China
Tucker, Charles Ketchum	1920 Ag	Brooklyn
Tufts, William Felt	1918 M	Boston, Mass.
Tuma, Vladimir Anthony	1920 Ag	New York City
Turnbull, Curtis Hussey	1921 Ag	Pittsburgh, Pa.
Turner, George William	1921 M	Wilkesburg, Pa.
Turner, Gerald Ambrose	1921 Ag	New York City
Turner, Louis Alexander	1919 A	Akron, O.
Turner, Mark Nathan	1919 A	Sodus
Turpin, Harold Worthington, B.S. in Agr.	Grad	Dohne, Cape Province, South Africa
Turpin, Marie Madeline	Spec A	Waltham, Mass.
Tutchings, Harvey Inkpen	1918 L	Johnstown
Tuttle, Arthur Lemuel, jr.	1920 Ag	Copperhill, Tenn.
Tuttle, Charlotte Campbell	1920 Ar	Wilmette, Ill.
Tuttle, Doris Orlenda, A.B.	1921 M.D.	Rutland, Vt.
Tuttle, Elbert Parr	1918 A	Honolulu, Hawaii
Tuttle, Malcolm Harley	1918 M	Honolulu, Hawaii
Tuttle, Spencer C.	1920 A	Buchanan
Tuttle, Tracy	1921 A	King Ferry
Twichell, William Lee	1919 Ag	North Collins
Tyler, Leland Corey	1920 Ag	Cohocton
Tyroler, Felix Raphael	1921 A (Chem)	Brooklyn
Tyson, Dorothy Vernon	1921 A	Pasadena, Cal.
Tyson, Howell Newbold	1921 M	Pasadena, Cal.
Ufer, Frances Helen	1920 Ag	Wauseon, O.
Ufer, Frank Benjamin, jr.	1921 Ag	Wauseon, O.
Uhl, Joseph Miller	1922 M	Logansport, Ind.
Uhlmann, Richard Frederick	1919 A	Chicago, Ill.
Ulrich, Rosalie	1921 L	New York City
Underwood, Francis Omar	1919 Ag	Buffalo
Undritz, Frederick Reinhold Martin	1920 Ag	West New Brighton
Upstill, Edgar Daye	1919 M	Cleveland, O.
Upton, Glenn Edward	1919 Ag	Pulaski
Uriarte, Eduardo	1920 M	Buenos Aires, Argentina
Usher, Naomi Ethel	1921 A	Jersey City, N. J.
Usher, Robert Reese	1921 Ag	East Hamilton
Vail, Eileen Bain	1920 A	Ridgewood, N. J.
Vail, William Carlyle	1920 Ag	Branchport
Valderrama, Mariano Alfredo	1918 C	Ithaca
Van Alstine, Loren King	1921 Ag	Chatham

Van Alstyne, Walter Kent	1921 A	Binghamton
Van Arsdale, Frances	1920 Ag	Albion
Van Brocklin, Roscoe	1921 Ag	Hion
Van Camp, Paul Milton	1919 C	Fine View
Van Campen, John Alden	1921 M	Elmira
Vance, Ledcreich Stuart	1920 M	Louisville, Ky.
Van de Boe, Louis Bristol	1920 Ag	Claverack
Van Denburgh, Edith Mackey	1921 A	Coxsackie
Van Doren, Jesse T.	1920 Ag	Three Mile Bay
Van Dyck, Miriam Hasbrouck, A.B.	Grad	New York City
Van Hall, Carl John	1921 A	Sodus
Van Horn, Martha Lydia	1921 A	Towanda, Pa.
Van Horn, Ralph Chapman	1918 Ag	Elmira
Van Horn, Theodora	1920 A	Towanda, Pa.
Van Horson, Jessica Helen	1918 A	Mount Vernon
Van Ness, Helene Geertru	1919 A	Greenwich
Van Nuys, Ellen Margaret	1919 A	Somerville, N. J.
Van Sweringen, Raymond Adams	1920 M	Cleveland, O.
Van Valkenburg, Kenneth Hastings	1920 M	Richmond Hill
Van Valkenburg, Paul Iretus	1920 C	Richmond Hill
Van Volkenberg, Horatio Luther	1918 V	Springville
Van Wagenen, Amy Elizabeth	1918 Ag	Kingston
Van Wagenen, Loraine McNeill	1920 Ag	Lawyersville
Van Wagenen, Sarah Lamont	1920 Ag	Lawyersville
Van Wagnen, William Perrine	1918 A, 1921 M.D.	Worcester
Varley, James Richard	1920 V	Greenwich
Varona, Michael Chinchilla	1920 M	Havana, Cuba
Vaughan, Seymour Madison	1921 Ag	Hudson Falls
Vea, Mathew Hjalmar Johnson	1922 M	Dover, O.
Veith, Frank	1919 A	New York City
Venman, Raymond Everett	1920 A	Frewsburg
Venter, Frederick Aloysius, A.B.	1921 M.D. (N. Y. C.)	New York City
Vermilye, Sherwood	1921 M	Closter, N. J.
Vernick, Samuel William	1921 M.D. (N. Y. C.)	New York City
Verwiebe, Frank Louis	1919 A	Buffalo
Vettel, Henry	1920 Ag	New York City
Viano, Eugene John	1918 A (Chem)	Lexington, Mass.
Vieweg, Hermann Frederick	1921 A (Chem)	Elmira
Vigert, Vilma	1919 Ag	New York City
Vinograd, Bertha Myrtle	1921 Ag	New York City
Vischer, Peter	1919 A	Brooklyn
Vivoni, William	1920 M	Ithaca
Vogel, Anna Marie	1921 A	New York City
Vogel, Saul Louis	1921 L	New York City
Vogel, William Edmund	1919 L	Goshen
Voigt, Louis Wainwright	1921 A	Pittsburgh, Pa.
Voisinet, Walter Eugene	1920 M	Buffalo
Volkhardt, Aquila Nebeker	1919 M	New York City
Van Oehsen, William Henry	1919 A	New York City
Voorhees, James Veghte	1919 A (Chem)	Richmond Hill
Vosburgh, Frederic Leon	1921 A	Auburn
Waag, Herman Benoit	1919 M	New York City
Wadsworth, James Raymond	1920 A	Oswego
Wadsworth, Leota Ada	1919 Ag	Dayton, O.
Wadsworth, Ruth Flanigen, A.B.	1919 M.D. (N. Y. C.)	New York City
Wadsworth, William Steele	1921 Ag	Farmington, Conn.
Wagner, Thomas Rowan	1918 Ag	Philadelphia, Pa.
Wagner, Vernon Wils	1920 Ag	Brooklyn
Wahl, John Estabrook	1921 M	Chicago, Ill.
Waite, Louise Alberta	1921 A	Fort Ann
Wakeley, Thompson Morris	1920 A	Omaha, Nebr.
Walbran, Nicholas Arthur	1918 C	Oriskany
Walbridge, Helen Isabel, A.B.	1918 M.D. (N. Y. C.)	New York City
Waldo, Reginald	1919 C	Campbell Hall
Walker, Alva Stone	1920 M	Greenwich, Conn.
Walker, Carl Henry	1918 C	Baltimore, Md.
Walker, Mercy Reed	1921 Ag	Canajoharie
Walker, Norton Wells	1920 A	Byron
Walker, Ralph Henry	1921 Ag	Westfield
Walker, William Allen	1920 A	Byron
Walkley, Albert Coe	1921 Ag	LeRoy
Walkley, Clarence Willard	1921 A	LeRoy
Wall, William Arthur	1919 Ag	Savona
Wallace, Aaron Van Duzer, jr.	1920 C	Goshen
Wallace, Francis Doolittle	1921 A	Geneva
Wallace, Grace, B.A.	Spec M.D. (N. Y. C.)	New York City
Wallenfels, Hugo	1919 A	Ithaca
Waller, Owen Meredith	1918 V	Brooklyn
Walrath, Frank Josiah	1919 Ag	Amsterdam

Walsh, John Patrick	1922 M	Pittsburgh, Pa.
Walton, Elisabeth Neil	1919 A	Los Angeles, Cal.
Waiworth, Chester Alexander	1920 A (Chem)	New Rochelle
Walz, Adolph Raymond	1919 A	Brooklyn
Walzer, Matthew, A.B.	1919 M.D. (N. Y. C.)	Brooklyn
Wand, Madeliene Rosa	1920 Ag	Owego
Wandell, Walter Jason	1921 A	Bloomington, Pa.
Wann, Frank Burkett, A.B.	Grad	Warsaw, Ind.
Ward, Albert John	1921 A	Ithaca
Ward, Nairne Forsyth	1921 M	Lockport
Ward, Stanley Mortimore	1918 Ar	Newark, N. J.
Wardenburg, Harry George	1920 M	Brooklyn
Wardle, Philip Van Gelder	1921 A (Chem)	Catskill
Warne, Celia Jeanette	1920 A	Ithaca
Warne, Clyde Arlington	1919 A (Chem)	Ithaca
Warne, Colston Estey	1920 A	Ithaca
Warne, Glenn Roy	1921 Ag	Ithaca
Warner, Hollis Victor	1918 Ag	Aquebogue
Warner, Jeannette	1919 Ag	Wellington, O.
Warner, Sherman Driggs	1921 M	Queens
Warner, Sidney Sardus	1918 Ag	Wellington, O.
Warren, Donald Howe	1921 Ag	Ellensburg Depot
Warren, Edith	1920 A	Castile
Warren, Theodore Edward	1921 L	Ashtabula, O.
Waterman, George Willis, Ph.B.	1919 M.D. (N. Y. C.)	Providence, R. I.
Waters, Helen Louise	1918 A	Troy
Watson, Mary	1919 A	Pittston, Pa.
Watson, Numa Augustin	1921 A	West Point
Watson, William Edward	1922 M	Toledo, O.
Watt, Edgar Raymond	1919 M	Ithaca
Watters, Hyla Stowell, A.B.	1921 M.D.	Atlanta, Ga
Watters, Richard John, jr.	1920 M	Buffalo
Waxham, Raymond Lee	Spec Ag	Forestville
Weaver, Harry	1918 A, 1921 M.D.	Amsterdam
Weaver, Herbert Rolland	1918 Ar	Utica
Weaver, Leland Eugene	1918 Ag	Findley Lake
Weber, Arthur August	1920 Ar	Mt. Clemens, Mich.
Weber, August Augustus	1920 Ag	Mamaroneck
Weber, Richard	1918 C	Camillus
Weber, Wilfrid	1920 A (Chem)	New York City.
Webster, Lois Irene	1920 Ag	Stanley
Weeden, Willis Morris, A.B.	1919 M.D. (N. Y. C.)	Frankfort
Weeks, Frederick Albert	1918 Ag	Ithaca
Wegner, Fritz William	1920 A	Frankfort
Wehrle, Lawrence Paul, B.S., M.S.	Grad	Hilton
Weiant, Warren Swift	1922 M	Newark, O.
Weidberg, Naphtali, B.S. in C.E.	1921 C	New York City
Weigt, John William	1918 M	Flushing
Weil, Edward	1920 M	Brooklyn
Weil, Edward Sidney	1920 A	Chicago, Ill.
Weil, Evelyn Hannah	1921 A	Philadelphia, Pa.
Wellepp, Thomas Greacen	1918 M	Baltimore, Md.
Weinberg, Michael Binder	1921 M	Norristown, Pa.
Weindling, Ludwig	1918 C	Brooklyn
Weingast, Joseph	1920 A (Chem)	Brooklyn
Weinheimer, Claude Miller	1920 M	North Tonawanda
Weinstein, Ezra	1921 L	Perth Amboy, N. J.
Weinstein, Harold Long	1918 Ag	Dundee
Weinstein, William	1918 Ag	New York City
Weir, Robert Hamilton	1920 C	Stamford, Conn.
Weis, George William	1921 M	Wilkes-Barre, Pa.
Weisberg, Hyman	1921 M	Kingston
Weiskopf, Lawrence	1918 Ar	Cleveland, O.
Weiss, Freeman, B.S.	Grad	Minneapolis, Minn.
Weiss, Max, B.S.	1918 V	New York City
Weiss, Morris	1922 M	Brooklyn
Weiss, Simon	1920 Ag	Monticello
Welch, Vimont Carpenter	1918 M	Lakewood, N. J.
Welch, William Miller, 2d.	1920 M	Philadelphia, Pa.
Weller, Walter, A.B.	1918 M.D. (N. Y. C.)	Hoboken, N. J.
Wellhouse, Walter Housley, A.B., A.M.	Grad	Ithaca
Wells, Guy Hemiup	1919 L	Dayton, O.
Wells, Guy William, Ph.B.	1920 M.D. (N. Y. C.)	Montrose, Pa.
Wells, Joseph Julius, A.B.	1918 M.D. (N. Y. C.)	Ithaca
Wells, Laurence Raymond	1921 C	Schuylerville
Wells, Nelson Miller	1918 Ag	Baldwinsville
Wells, William Henry, jr.	1921 Ag	Roslyn
Weltmer, William Harvey	1922 M	Pelhamwood
Wemett, Erastus Harrison	1921 Ag	Springwater

Wendnagel, Charles Eugene	1922 M	Chicago, Ill.
Werbelowsky, Isidor	1921 A (Chem)	Brooklyn
Werring, Walter William	1921 M	Brooklyn
Werther, Rose Marion	1919 A	Elmhurst
West, Alvin Emil	1921 A	Washington, D. C.
West, Frances Georgia	1918 Ag	Rochester
West, Luther Shirley	1921 Ag	Owego
West, Randolph Cooper	1921 C	New Orleans, La.
Westerhoff, Peter Detelius, jr.	1921 A	Midland Park, N. J.
Westlake, Sherwood Vincent	1921 Ag	New York City
deWet, Charl Louis Roux, B.S. in Agron.	Grad	Cape Town, South Africa
Wetzel, Frank Carl	1919 A	Princetown
Wexler, David	1921 A	Brooklyn
Wheeler, Fred Eugene	1919 Ag	North Bangor
Wheeler, John Edward	1920 Ag	Brockton, Mass.
Wheeler, Mary Alexandria	1921 A	Interlaken
Whiston, Howard Clark	1918 M	East Orange, N. J.
Whitaker, Sophie Turman, A.B.	1918 A	Tampa, Fla.
Whitcomb, Howard Marvin	1919 Ag	Nichols
White, Anna Laura	1919 A	Walton
White, Elmer Ellsworth	1921 Ag	Portland, Ore.
White, Elwyn Brooks	1921 A	Mt. Vernon
White, Florence Elizabeth	1920 Ag	Yorktown
White, George Fitch	1918 A	Walton
White, Karin Andréevna, A.B.	1920 Ag	Ithaca
White, Marion Langworthy	1918 A	Ithaca
White, Ward Benjamin, A.B.	Grad	Preston Hollow
Whitehill, Alfred Aloysius	1920 Ag	Brooklyn
Whitelaw, Bertha	1921 Ag	New York City
Whiting, Wm. Alonzo, B.S.	Grad	Meadville, Pa.
Whitman, Samuel Corbin	1919 A	Afton
Whitmore, Floyd Irving, jr.	1921 A	New Berlin
Whitmore, Mathew Franklin	1918 V	Addison
Whitney, Andrew Jackson, 3d.	1918 C	Buffalo
Whitney, Richard Benton	Spec Ag	Buffalo
Whittemore, Arthur Snow	1920 M	New York City
Whittemore, William Horace	1921 M	East Orange, N. J.
Whittingham, Augustine Monroe	1919 Ag	Millburn, N. J.
Whittingham, William Rollinson, 3d.	1919 Ag	Millburn, N. J.
Whyte, Keith Carrick	1920 M	Anaconda, Mont.
Wichelns, Herbert August, B.A.	Grad	New York City
Wicker, Josephine Candee	1919 A	Hanover, N. H.
Wicker, Mildred Marie	1919 A	Livonia, N. Y.
Wickes, Francis Allen	1921 Ag	Ticonderoga
Wickham, Marvin Woodley	1919 M	Poughkeepsie
Wicks, James Monroe, M.D.	Spec M.D. (N. Y. C.)	Jamaica
Wiedorn, Williams	1920 Ag	Waterbury, Conn.
Wiegert, Peter Andrew	1920 Ag	Brooklyn
Wiggins, Dean Cushing	1919 A	Brooklyn
Wigglesworth, Albert Gifford	1919 M	Chicago, Ill.
Wigsten, Frank Murray	1921 Ag	Elmira
Wilbur, Francis Cressy	1918 Ag	Albany
Wilcox, Ansley, 2d.	1921 A	Castleton-on-Hudson
Wilcox, Helen Wanda	1920 A	Elmhurst
Wilder, Bertha	Spec A	Ithaca
Wilder, Harris Emory	1922 M	Elmhurst, Ill.
Wilkes, Edward Theodore	1921 M.D. (N.Y.C.)	New York City
Wilkes, Harriet Erwin	1921 A	Binghamton
Wilkinson, Marshall Fiske	1918 V	Clinton
Wilkinson, Raymond James	1920 V	Ithaca
Wilklow, Ward	1921 L	Ellenville
Willard, Neil Matthew	1920 M	Buffalo
Willcox, Elsie Ariadne	Spec Ag	Plymouth
Willgerodt, Tillie Margarete	1920 A	Montclair, N. J.
Williams, Gerald Crofoot	1920 C	Binghamton
Williams, Harold Willson	1918 M	Washington, D. C.
Williams, Langdon Thomas	1921 L	Columbus, O.
Williams, Ramon Oscar	1921 M	Brooklyn
Williams, Roger	1921 C	Belleville
Williams, Ruth	1918 A	Denison, Tex.
Williams, Victor Jackson	1921 M	Bolivar
Williamson, Clarence Suydam	1921 M	Brooklyn
Willis, Geraldine Margaret, A.B.	Grad	Ithaca
Willis, Marjorie Elise	1921 Ag	Ithaca
Willis, Paul Truitt	1918 A, 1921 M.D.	Niagara Falls
Willison, Dorothy	1920 Ag	Huntington, W. Va.
Wilson, Donald Bower	1919 Ag	Chrome, N. J.
Wilson, Edward	1921 M	Pittsburgh, Pa.
Wilson, Jacob	1919 A	Brooklyn
Wilson, Margaret Fletcher	1919 A	Brooklyn

Wilson, Maurice Leigh	1920 M	Ithaca
Wilson, Percy Snyder	1919 C	Glen Ridge, N. J.
Wilson, Wade Inskeep	1921 A	Davis, W. Va.
Wincor, Abraham	1920 A	New York City
Windt, V. Barthold	1921 A	New York City
Winestine, Frederica, A.B.	1920 M.D. (N. Y. C.)	Waterbury, Conn.
Winn, Carl Preston	1918 Ag	Brooklyn
Winter, James Henry	1921 M	Greene
Wintringham, Andrews Clement	1919 A (Chem)	Millbrook
Wipperman, Walter Kendall	1919 A	Logansport, Ind.
Wisansky, Harry	1918 A	New York City
Wisner, William Dorr	1918 A, 1921 M.D.	Ransomville
Wistrich, Harry	1918 C	New York City
Witkop, John Charles	1920 Ag	Buffalo
Witowski, Frank John	1921 A	Buffalo
Witzel, Joseph Alfred	1920 Ag	New York City
Wohlwend, William Charles	1921 M	Akron, O.
Wolcott, Rosamond, B.Arch.	Grad	Utica
Wolcott, Ruth	1920 A	West Hartford, Conn.
Wolf, Harold George	1920 Ag	Varysburg
Wolf, John George	1919 Ag	Varysburg
Wolf, Princess Marian	1921 Ag	Homer
Wolfe, Joseph Ernest	1920 A	Ithaca
Wolfertz, Edward	1920 M	Newark, N. J.
Wolff, Anita	1920 A	Stapleton
Wolff, Elizabeth Lucy	1921 Ag	Ithaca
Wolff, Leonard Samuel	1921 M	New York City
Wolfson, Alfred Mortimer	1921 Ag	Jersey City, N. J.
Wolkind, Samuel	1920 A	Buffalo
Wolph, Arthur Lyman	Spec Ag	Davenport
Wong, Chun, B.S.	Grad	San Francisco, Cal.
Wong, Kam Yuen	1919 M	Hong Kong, China
Wood, Alfred Roland	1919 C	Princes Bay
Wood, Cedric Willits	1920 M	Buffalo
Wood, Edgar Holmes	1921 A (Chem)	Port Byron
Wood, Everitt	1920 M	Brooklyn
Wood, Franz West	1920 M	Des Moines, Ia.
Wood, Harlan Valentine	1921 M	Jacksonville
Wood, Hilton Gerard	1921 A (Chem)	Stamford, Conn.
Wood, Karl Dawson	1920 M	Washington, D. C.
Woodard, Ruth	1919 A	Glens Falls
Woodcock, William Palmer	1920 Ag	Spencer, Ia.
Woodman, Jocelyn	1919 A	Brooklyn
Woodman, Winifred, A.B.	1920 M.D. (N. Y. C.)	Brooklyn
Woodruff, Charles Curtis, jr.	1919 C	Long Island City
Woodruff, Dorothy Elizabeth	1920 A	Ithaca
Woodward, Morton Powell	1920 A (Chem)	Norwood, O.
Woodworth, Roswell Williams	1918 A	Homer
Woolley, John Haskell	1922 M	Portland, Me.
Works, Philip Owen	1922 C	St. Paul, Minn.
Worms, Sophie Dazian	1920 A	Whitestone
Worn, George Austin	1918 M	Reno, Nev.
Worster, Rebecca Jane	1918 Ag	Chautauqua
Worth, Isador Samuel	1921 L	Riverside, N. J.
Wray, Laura Eleanor	1920 Ag	Shelter Island
Wright, Chilton Austin	1919 C	New Rochelle
Wright, Grace	1918 Ag	Cranberry Creek
Wright, Ivan, B.A., B.S., M.S.	Grad	Lawford, W. Va.
Wright, Simeon Mather	1920 M	Belleville
Wright, Sumner Bisbee	1919 M	Baltimore, Md.
Wright, Walter Wayne	1919 A (Chem)	Kittanning, Pa.
Wright, William Edward Frost	1919 Ag	New Rochelle
Wuest, Louis Arthur	1919 Ag	Cincinnati, O.
Wuest, Phyllis Lois Augusta	1921 A	Brooklyn
Wurzburger, George Gottfried	1921 Ag	New York City
Wyckoff, Ralph W. G., B.S.	Grad	Geneva
Wynkoop, Doris DeNard	1919 A	Rochester
Wynne, Harry P.	1918 V	Binghamton
Yellen, Max Mandel	1918 L	Buffalo
Yeomans, George Alvoyd	1920 Ar	Rochester
Yeung, Sik Chung	1918 Ar	Hongkong, China
Yih, Charles Robert, B.A., B.Sc.	Grad	Soochow, China
Yoffa, Annie	1921 A	E. Brunswick, Victoria, Australia
Yoffa, Bella	1921 A	E. Brunswick, Victoria, Australia
Yokogawa, Tokisuke	1921 Ar	Tokio, Japan
Yordon, Walter Scott	1921 Ag	Syracuse
York, Henry Royce	1921 Ag	Kenwood
Yoshii, Edward Etsuya	1918 M.D. (N. Y. C.)	New York City
Yost, Charles Henry	1918 M	Waterloo

Youmans, Mildred Addison	1918 Ag	Binghamton
Young, Benjamin Percy, B.S.	Grad	Ithaca
Young, Ernest Charles, B.S.	Grad	Grove City, Pa.
Young, Esther Rebecca	1921 Ag	Therese
Young, Frances King	Spec A	Ithaca
Young, Gertrude Parker	1921 Ag	Ithaca
Young, Hiram Belding	1921 A (Chem)	Chicago, Ill.
Young, Park Elkanah	1922 Ar	Sherman
Young, Paul Thomas, A.B., A.M.	Grad	Los Angeles, Cal.
Young, Raymond David	1921 Ag	Bayonne, N. J.
Young, William MacBride	1921 Ag	Brooklyn
Younkheere, Robert Charles	1918 Ag	New York City
Zadig, Ernest	1921 M	New York City
Zammataro, Salvatore Joseph	1921 C	New York City
Zapata, y Torres, Miguel	1921 A	Cabo Rojo, P. R.
Zapf, Irene Augusta	1921 Ag	Batavia
Zaret, William	1921 L	Arverne
Zausmer, Abraham Aaron	1920 A	Waverly
Zeiger, Albert	1921 Ag	New York City
Zellner, Ansel Kenneth	1918 V	Waterloo
Zeltner, Lorin William	1918 Ag	New York City
Ziegelbauer, Pauline	1919 A	Gloversville
Zilevitz, Reuben Robert	1920 Ag	New York City
Zimmerman, Lois Annette	1920 Ag	Cortland
Zinssmeister, Helen Minnie	1921 A	Herkimer
Zoller, Mabel Lucy	1920 Ag	Fort Plain
Zuckerman, Florence	1921 A	New York City
Zuckerman, Jacob	1919 Ag	Gloversville
Zurbrick, Ella Dorothy	1918 Ag	Clarence Center

STUDENTS REGISTERED IN THE THIRD TERM, 1917

Allanson, Henry Emil	Ithaca
Anderson, Ernest Gustav, B.Sc. (Univ. of Neb.), 1915	Concord, Neb.
Baerg, William J., A.B. (Kans. Univ.), 1915	Ithaca
Baker, Lucinda Monica	Fond du Lac, Wisc.
Balkett, Dorothy Alice	Mansfield, O.
Barra-Hurtado, Guillermo, B.H. (Chile Univ.), 1915	Santiago, Chile
Beatty, Archie Smith, B.S. in Agr., 1912	Pittsburgh, Pa.
Beshtel, Albert Reiff, B.S., M.S. (Univ. of Pa.), 1912	Royersford, Pa.
Bogdahn, Ernst Franz	Troy
Boshnakian, Sarkis, B.S.A. (Univ. of Wis.), 1914, M.S. in Agr. (Cornell), 1915	Ithaca
Boucher, Henry Negus	Brooklyn
Brandes, Elmer Walker, B.S. (Mich. Agr.), 1913, M.S. (same), 1915	Detroit, Mich.
Brannon, James Marshall, M.A. (Univ. of Wis.), 1914	Ithaca
Bregger, Thomas, B.S. (Univ. of Ill.), 1910	Ithaca
Bullard, Helen Elise	Schuylerville
Burlage, Stanley Ross	Fredonia
Busnell, Frank Pores, A.B. (Colgate), 1901	Ithaca
Carrick, Doak Bain, A.B. (Wake Forest Coll.), 1910	High Point, N. C.
Chandler, Wallace Larkin, B.S. (Univ. of Calif.), 1914, M.S. (same), 1915	Ithaca
Cheung, Cheuk Kwan, B.S., 1916	Canton, China
Chien, Chih Lan, B.S., 1917	Chekiang, China
Church, Edith Holley	Ithaca
Cohen, Reuben Michael	Brooklyn
Cohn, Philip	New York City
Cook, Leon Emory, A.B., 1913, B.S. in Agr., 1914	Ithaca
Cowan, Ralph Waldo Emerson, B.S., 1916	Ithaca
Darrow, Edith Mary, A.B. (Middlebury), 1913	Chester Depot, Vt.
Davidow, Morris	Brooklyn
Dean, Gertrude Blanch	Ithaca
Dexter, Carlos von L.	New York City
Dieterich, Henry, B.S., 1917	Schenectady
Dersey, Ernest, B.S. (Minnesota), 1916	Drendon, Ohio
Dusham, Edward Henry, A.B. (Dartmouth), 1915, M.S. (Penn. State), 1915	State College, Pa.
Eyster, William Henry, A.B. (Bucknell), 1914, A.M. (same), 1915	Fishers Ferry, Pa.
Ford, James Alfred, B.S. (N. H. Ag. Coll.), 1898, M.S. in Agr. (Cornell), 1902	Amherst, Mass.
Gage, George Raymond, B.S. (Penn. State), 1914, M.S. (Mich. Agr.), 1915	Atlantic City, N. J.
Gonzalez, Paulino Joseph	El Paso, Texas
Gram, Ernst, M.S. (Univ. of Copenhagen), 1915,	Landsodnet, Soro, Denmark
Gillett, Roy Lewis, B.S., 1917	Colden
Gray, Dorothy Millen	Cape Vincent
Haber, Vernon Raymond, B.S. (Ohio State), 1914, M.A. (same), 1916	Rosburg, Ohio
Hamilton, Clyde Carney, B.S. (Kans. St. Agr.), 1913, M.S. (Univ. of Ill.), 1916	Haswell, Colo.
Hartman, Henry Eugene	New York City
Harvey, Lew Ellsworth, B.S., 1914	Marathon
Hess, Walter Norton, A.B. (Oberlin), 1913, M.A. (Cornell), 1916	Great Valley
Heuser, Gustave Frederick, B.S., 1915, M.S. in Agr., 1916	Buffalo
Hoffman, William Albert, B.S., 1917	New York City
Hopkins, Edwin Fraser, B.S., 1915	Ithaca
Iberico, Juan Resurreccion	Loretto, Peru
Ireland, Joseph C., B.A. (Wabash), 1917	Lake Cicott, Ind.
Jahn, Alfred Paul	New Rochelle
Jones, Robert Nuttall	Buffalo
Kelly, Alfred Batholomew Francis	Ithaca
Klein, Henry Nathaniel	Brooklyn
Knowlton, Harry E., B.S. (Mich. Agr. Coll.), 1912	Ithaca
Koch, Henry William	Hoboken, N. J.
Kostal, Emile	Ithaca
Kraus, Albert Abraham, B.S., 1917	New Brighton
Lauritzen, John Irwin, B.S. (Utah Agr. Coll.), 1913	Ithaca
Loede, Frederick William, jr.	New York City

McMillan, Samuel Augustus, B.S. (Tex. A. & M. Coll.), 1909	Anchor, Tex.
Martin, Thomas Lysons, A.B. (Brigham Young), 1912	American Ford, Utah
Meade, DeVoe, B.S. (Penn. State), 1911	Ithaca
Mehmedoff, Mehmed Ali, B.A. (Robert Coll.), 1913, B.S. (Mich. Agr.), 1917	Constantinople, Turkey
Mekeel, Amy Grace, A.B., 1910	Trumansburg
Mendiola, Nemesio Blanco, B.S. in Agr. (Univ. of Philippines), 1914, M.S. (same), 1916	Angono, Rizal, P. I.
Merrill, Frederic Brettell	Schoharie
Misner, Edward Gardner, B.S., 1913	Dairyland
Moesel, Julia, A.B., 1916	Buffalo
Monnett, Victor Elvert, A.B. (Univ. of Mich.), 1912,	Norman, Okla.
Moon, Merle Perrott, A.B., 1915	Beaver Falls, Pa.
Myers, William Hartley	Ithaca
Myers, William Irving, B.S., 1914	Lowman
Nakahara, Waro, B.S. (Tokyo Agr.), A.M. Cornell, 1917	Tokyo, Japan
Nanz, Ralph Simpson, B.S., 1912	Ithaca
Newman, George Burgess, A.B. (Univ. of Me.), 1914, A.M. (Cornell), 1915	Fryeburg, Maine
Noble, Clarence Vernon, B.S., 1916	Ithaca
Ohlendorf, Walter, B.S. (Tex. A. & M. Coll.), 1913	Lockhart, Texas
Owens, Mark	Morristown, N. J.
Palmer, Ephraim Laurence, A.B., 1911, A.M., 1913	Cortland
Palmer, Walter	Brooklyn
Parks, Charles John, Ph.B. (Alfred), 1907	Ithaca
Phipps, Emma Virginia	Buffalo
Porter, Joseph Pullman	New Rochelle
Price, Arthur Frederick, B.A. (Ohio Wesleyan), 1913	Cortland
Reed, Emily Sweetland	Canandaigua
Rehfeld, Frances Eugenia Hiles	Milwaukee, Wis.
Routh, Joseph Phelan	New York City
Rubinger, Joseph, B.S., 1917	New York City
Sand, Austin Wertman William	Lockport
Schroeder, Lloyd Herman	New York City
Sie, William Kia-shen, B.A. (Nanking Univ.), 1915, M.S. (Mich. Agr. Coll.), 1917	Wuhu, Anhwei, China
Silvers, Lewis Julian	New York City
Smith, Benjamin Harrison, A.B. (Wabash), 1917	New Richmond, Ind.
Smith, Raymond Stratton, B.S. (Pomona), 1907, B.S. in Agr. (Univ. of Ill.), 1913, M.S. (Penn. State), 1916	State College, Pa.
Stauffer, George Maurice	Elizabeth, N. J.
Stewart, George, B. S. (Utah Agr.), 1913	Tooele, Utah
Strahan, James Lewis, B.S. in Agr., 1912, M.S. in Agr., 1915	Hopewell Junction
Sweeny, Samuel Chadwick	Hartsdale
Taft, Lyman Herbert, jr.	Montgomery
Taylor, James Harley, A.B. (Trinity), 1916	Harley, N. C.
Teck, Joseph	Brooklyn
Turner, Thomas Wyatt, A.B. (Howard), 1901, A.M. (same), 1905	Washington, D. C.
Turpin, Harold Worthington, B.S. in Agr. (Iowa State), 1916	Dohne, Cape Province, So. Africa
Weeks, Frederick Albert	Ithaca
West, Frances Georgia	Rochester
de Wet, Charl Louis Roux, B.S. in Agron. (I. S. C.), 1916	Cape Town, So. Africa
Wiggins, Roy Glen, B.S. in Agr. (Univ. of Mo.), 1914	Columbia, Mo.
Wong, Chun, B.S., 1916	Canton, China
Yih, Charles Robert, B.A. (Soochow Univ.), 1914, B.Sc. (same), 1915	Soochow, China
Yuasa, Hachiro, M.S. (Univ. of Ill.), 1917	Tokyo, Japan

SUMMARY

269

Summary by Colleges

GRADUATE SCHOOL			238
COLLEGE OF ARTS AND SCIENCES			
Candidates for A.B.	Class of 1918.....	205	
	Class of 1919.....	240	
	Class of 1920.....	251	
	Class of 1921.....	309	
Candidates for B.Chem.	Class of 1918.....	27	
	Class of 1919.....	31	
	Class of 1920.....	63	
	Class of 1921.....	87	
Special Students		4	
		—	1217
COLLEGE OF LAW			
Class of 1918.....		17	
Class of 1919.....		37	
Class of 1920.....		54	
Class of 1921.....		76	
Special Students		1	
		—	185
MEDICAL COLLEGE			
New York City	Class of 1918.....	32	
	Class of 1919.....	28	
	Class of 1920.....	54	
	Class of 1921.....	45	
	Special Students	8	
Ithaca Division	Class of 1921.....	30	
		—	197
VETERINARY COLLEGE			
Class of 1918.....		58	
Class of 1919.....		7	
Class of 1920.....		21	
Class of 1921.....		19	
		—	105
COLLEGE OF ARCHITECTURE			
Class of 1918.....		15	
Class of 1919.....		15	
Class of 1920.....		30	
Class of 1921.....		15	
Class of 1922.....		6	
Special Students		9	
		—	90
COLLEGE OF AGRICULTURE			
Class of 1918.....		211	
Class of 1919.....		234	
Class of 1920.....		246	
Class of 1921.....		282	
Special Students		35	
		—	1008
COLLEGE OF CIVIL ENGINEERING			
Class of 1918.....		46	
Class of 1919.....		48	
Class of 1920.....		67	
Class of 1921.....		67	
Class of 1922.....		19	
		—	247

SIBLEY COLLEGE OF MECHANICAL ENGINEERING

Class of 1918.....	75	
Class of 1919.....	110	
Class of 1920.....	154	
Class of 1921.....	229	
Class of 1922.....	74	
Special Students	10	
	<hr/>	652
Total number of students, deducting for names counted twice (33).....		3906

Geographical Summary

New York.....2578	Nebraska 12	Rhode Island... 3	outh Africa.... 4
Pennsylvania .. 244	Iowa 11	Idaho 2	Chili 3
New Jersey..... 219	Louisiana 11	New Mexico.... 2	Australia..... 2
Ohio 115	Vermont 11	Wyoming 2	Ecuador 2
Illinois..... 85	Delaware 9	Nevada 1	Japan 2
Connecticut 64	South Carolina.. 9	North Dakota .. 1	Russia 2
Massachusetts . 43	Arkansas..... 8	South Dakota .. 1	Turkey 2
D. of Columbia. 41	Tennessee 8	Utah 1	Bahamas..... 1
Maryland 31	Maine 7	Washington 1	Bolivia 1
Missouri 27	North Carolina . 7	Territory of Hawa i 5	Bulgaria 1
Texas 25	Florida 6	Porto Rico 12	Dominican Rep. 1
Indiana 23	Georgia 6	Philippine Is.... 8	Greece 1
California 21	Kansas 6	China 42	India 1
Michigan 19	New Hampshire. 6	Cuba 10	Palestine 1
Minnesota 16	Montana..... 5	Canada 9	Panama Rep... 1
West Virginia... 16	Oregon 5	Mexico 5	Peru 1
Colorado 15	Oklahoma 4	Argentina 4	Salvador 1
Virginia..... 15	Alabama 3	Brazil 4	Scotland 1
Wisconsin 14	Mississippi..... 3	Colombia 4	Switzerland 1
Kentucky 12			

ADDITIONAL ENROLLMENT

Third Term in the College of Agriculture, June–September, 1917.....	111
University Summer Session (including Summer School in Agriculture).....	1239
Winter Courses in Agriculture, 1917–18.....	190

Total Registration by Years from the Opening of the University

1868, 412	1877, 529	1887, 1022	1897, 2120	1907, 4465
1869, 563	1878, 505	1888, 1229	1898, 2543	1908, 4859
1870, 609	1879, 463	1889, 1329	1899, 2766	1909, 5194
1871, 597	1880, 399	1890, 1390	1900, 2980	1910, 5624
1872, 539	1881, 384	1891, 1670	1901, 3293	1911, 5848
1873, 509	1882, 405	1892, 1883	1902, 3457	1912, 6315
1874, 532	1883, 447	1893, 2040	1903, 3423	1913, 6496
1875, 542	1884, 575	1894, 2042	1904, 3841	1914, 6891
1876, 561	1885, 649	1895, 2057	1905, 4122	1915, 7143
	1886, 829	1896, 2105	1906, 4225	1916, 6999

STUDENTS IN THE UNIVERSITY SUMMER SESSION, 1917

Including the Summer School in Agriculture

*Indicates Summer School in Agriculture.

†Indicates Summer Session and Summer School in Agriculture.

‡Indicates registration also in the graduate School.

Abbott, Ruth Burleigh	Phoenix
*Acheson, Maud Amanda	Stanley
Acker, Warren Franklin, A.B. (Muhlenberg Coll.), 1904, M.A. (same), 1907	Allentown, Pa.
*Adams, Chimena	Providence, R. I.
Adams, Minerva Lois	Ocean City, N. J.
Alderwick, Charlotte Ann	Utica
Alexander, Virginia, A.B. (Vassar), 1889, A.M. (Cornell), 1899	Ithaca
Allen, Charles Ethan, A.B. (Wabash), 1914	Orleans, Ind.
*Allen, Elsa Geurdrum, A.B., 1912	Ithaca
*Allen, L. Clementine	Ovid
*Allen, Lillian	Weedsport
*Allen, Mary, A.B., 1903, A.M., 1915	Ithaca
*Allen, Mary Lillian, A.B., 1909	Ithaca
Allen, Raymond Peck	Lima
*Allis, Ethel Elizabeth	Ithaca
Alspach, Helen Varwig	Philadelphia, Pa.
†Ambler, Alice Hannah	Plymouth Meeting, Pa.
†Ambler, Eliza Moore	Plymouth Meeting, Pa.
*Anderson, Celia Albertine	Lindley
Anderson, Jessie Elizabeth	Torrington, Wyo.
†Anthony, Clara Belle	Gloversville
Apfel, Amy Ruth	Brooklyn
*Apgar, Clara Isabelle	Homer
†Apgar, Clara Selkreg, A.B., 1905	Ithaca
Armstrong, Henrietta Marie	Baltimore, Md.
Ashbaucher, Hermina Eliza	Bluffton, Ind.
Ashman, Victoria Kate	Bridgeton, N. J.
†Atherton, Bernice Margaret	Angelica
Athoe, Harold William	Ridgeway, Ont., Canada
Au-Young, Sam Nung	Hong Kong, China
Bachman, Ora Belle	Annville, Pa.
Backus, Grace	Newark, N. J.
Badger, Katharine	Ithaca
*Badger, Margaret	Ithaca
*Bailey, Elmer James, Ph.B. (Univ. of Rochester), 1894, Ph.M. (same), 1897, A.M. (Hamilton), 1905, Ph.D. (Cornell), 1909	Ithaca
*Bailey, Emma Knapp	Hudson
Bailey, Mildred Louise	So. Dartmouth, Mass.
*Bair, Anna Barbara	Lancaster, Pa.
Balcom, Eva Myrtle	Sanborn
Ball, Anna Louise	Caledonia
Balliet, Esther Miriam	Balliettsville, Pa.
Ballou, Harold	Ithaca
Bandler, Gertrude Fox	Owego
Barber, Ruth Anna	West Pittston, Pa.
Barbour, Anna Violet, A.B., 1906, A.M., 1909, Ph.D., 1914	Poughkeepsie
*Barclay, Margaret Ethel, A.B. (Adelphi), 1906, A.M. (Cornell) 1908	Brooklyn
*Baris, Louise	New York City
Barkdell, Roy Edgar	New Orleans, La.
Barker, Ethel Cora	Ithaca
*Barkley, Leona	Argyle
Barlow, Anna Marie	Fredonia
Barnes, Mary Florence, B.A. (Richmond Coll.), 1913	Diascond, Va.
†Barrow, Elva Eudora, A.B. (Randolph-Macon), 1911	Ferrum, Va.
Barry, Frank Thomas	Spokane, Wash.
Bartholomew, Robert Andrew	Lockport
*Bartow, Eloise Elizabeth	Wilson
Bassett, Harold Rhodes	Holyoke, Mass.
Baxter, Florence	White Plains
Beaman, Mildred Farley	Detroit, Mich.
*Beck, Leslie Earl	Owego
Becher, Harriman Marjorie	West Chester, Pa.
Beers, Clara	Salamanca
Benkert, Kathryn Olga	Lancaster, Pa.
†Beiermesiter, James McPherson	Troy
Bell, Florence	Youngstown, Ohio

Bender, Barbara	Buffalo
Benjamin, Edith Sibley, A.B., 1898	Waits
Benners, Mildred Stuart	Moorestown, N. J.
Benoist, Alice	West Hoboken, N. J.
*Benson, Florence Gabriel	Cohoes
Benson, Keith William	Sterling, Ill.
Beonis, Hildegard Margaret, B.A. (Hunter Coll.), 1910	Brooklyn
*Berberich, Henry George	Buffalo
Berge, Louise Irene	Brooklyn
Berghauser, Genevieve	Scranton, Pa.
*Bergholtz, Hilma Marie, B.S., 1915	Ithaca
Berkey, Florence May	Pittsburgh, Pa.
Berkemeier, Carolina Ruth	Poughkeepsie
Berman, Herman	Brooklyn
Bernstein, Frieda May	Spring Valley
Berston, James Lewis	Yonkers
Bertoncini, Charles Francis	Panama City, Panama
Bertran, Juan Manuel	Humacao, Porto Rico
*Beyschlag, Emily	New York City
†Beziet, Kate Bradley, A.B. (Vassar), 1892	Spencer
*Birnbbaum, Adele	New York City
Bishop, George King	Cleveland, Ohio
†Blackwell, Mabel Madeline	Brooklyn
Blaine, Frederick Field, A.B. (Oberlin), 1917	Oberlin, Ohio
Blair, Margaret Adah	Duquesne, Pa.
*Blake, Marion M.	Hoosick Falls
Bleecker, Winthrop Gilman	New York City
Bleiman, Gladys Katherine	New York City
†Blodgett, Mary Catharine	Rushville
†Bloomington, Margaret Vrooman	Brooklyn
*Blumberg, Philip Seymour, A.B. (Harvard), 1913	Corning
Bodansky, Meyer	New York City
Boehm, Arthur Bruce	Robinson, Md.
Boggs, Florence Tucker	New York City
††Bohannon, Charles Dudley, A.B. (Teachers Coll.), 1910	Ithaca
*Bollin, Elsa Emily Josephine	Newark, N. J.
Boner, Mary Frances	Brooklyn
Booker, Guy Headrick	Seattle, Wash.
Boorem, Gladys Marian, A.B. (Ursinus Coll.), 1915	Lehigh, Pa.
Booth, James William	East Orange, N. J.
Borden, Lee DeWitt, B.S. (Southwestern Univ.), 1883, B.A. (Univ. of Nashville), 1891	Denton, Tex.
Boughner, Jane Irene	Hazleton, Pa.
†Bowes, (Mrs.) Lillis Barlow	Canastota
Bowman, Florabelle Buehrle	Lancaster, Pa.
*Boyd, Martha Jane, B.A. (Hon.) (Queen's Coll. Belfast, Ireland), 1914	New York City
Bradford, James Henry Howe	Springfield, Mass.
*Braem, Grace Carmen, B.A. (State Coll. for Teachers), 1917	Sag Harbor
*Bramhall, Hazel Charlotte	Oil City, Pa.
Braun, Robert	Pottsville, Pa.
Breckinridge, Lucy Hayes, A.B. (Smith) 1903	Washington, D. C.
Brennan, Elizabeth Mary	Kingston, Pa.
*Brenner, Lula Ann	Ithaca
*Brewster, Alice May	Cornwall
*Brigham, Bessie Lucille	Johnson City
Brightman, Elise Martha	South Dartmouth, Mass.
Brittain, Sally, B.M. (Bethany), 1912	Tazewell, Va.
Britton, Ina A., A.B. (Alfred), 1908	Friendship
Broad, Mabel	Honesdale
*Broas, Raymond A.	Johnson City
*Brodie, Ida Mae	Bergen
Broughton, Mary Selina, B.M. (Elmira Coll.), 1902, B.A. (same), 1904	Elmira
*Brown, Alice	Esperance
Brown, Chauncey Fairfield, A.B. (Park Coll.), 1916	LaCrescenta, Cal.
Brown, Laura Bayette	Ithaca
Brown, Louise Birkett	Carbondale, Pa.
Brown, Mary Gilbert, A.B. (Elmira Coll.), 1895, B.L.S. (State Library Sch.), 1907	Elmira
Brown, May Bernadette	Brooklyn
Brown, Roger Crafts	LaCrescenta, Cal.
Brown, Samuel Hulme, A.B. (Haverford), 1895, A.M. (Harvard), 1915	Westtown, Pa.
Browne, Vera Payne	Ithaca
*Brownold, Julia Caroline	Baltimore, Md.
†Brumbaugh, Chalmers Sherfey, A.B. (Juniata Coll.), 1904, LL.B. (Univ. of Md.), 1909	Baltimore, Md.
Büchler, Anna Marie	Jersey City, N. J.
*Bucknam, (Mrs.) Delilah Hayes	Jamestown
Bullowa, Alma M., A.B. (Hunter Coll.), 1904, A.M. (New York Univ.), 1906	New York City
*Bullowa, Grace Aguilar M.	New York City
*Bullard, Marion, A.B. (Goucher), 1915	Glens Falls

Burke, James Harry	Hartford, Conn.
Burns, Helen Woodward	Honesdale, Pa.
Burns, William Lawrence	Ithaca
Burrill, Roy Hagar	New Rochelle
*Burroughs, Ethel Chase	Scio
†Burroughs, Guy Thomas	Leon
Butts, Marie Lucile	Brunswick, Ga.
*Byrnes, Mary Angela	Lima
Caldwell, Nellie	Athens, Va.
Caldwell, Ruth	Fort Wayne, Ind.
Calkins, Elmer Benjamin	Nanticoke, Pa.
Campbell, Cora Amanda	Philadelphia, Pa.
Campbell, Emily Alva	Philadelphia, Pa.
Carey, Margaret Ann, A.B. (Northwestern Univ.), 1911, B.O. (Geneva Coll.), 1916	Monaca, Pa.
Carmalt, Helen Amelia	Brookville, Pa.
Carpenter, Eliza Beckwith	Brooklyn
*Carr, Elizabeth Pollard	Erie, Pa.
Carrasco-Calvo, Juan Leopoldo, A.B., B.S. (Chile Univ.), 1914	Temuco, Chile
Carrino, Constantine Nicholas	Brooklyn
Carroll, Edith Elizabeth, A.B. (Salem Coll.), 1913	Burlington, N. C.
Carter, Mary Elizabeth, A.B. (Vassar), 1911	Poughkeepsie
Case, Mary Margaret, A.B. (Univ. of Pittsburgh), 1914	Pittsburgh, Pa.
Casey, Edward James	Ithaca
Castro-Martinez, Eduardo	Santurce, Porto Rico
*Cates, Mary Hill	Otisco Valley
Caufield, Bessie Mary	Honesdale, Pa.
*Caulkins, Alice	Naples
Chai, Ping Hai	Tientsin, China
Chamberlain, Floyd Bruce, B.S. (Colgate), 1917	Franklin
Champion, Joe D., B.Pg. (Valparaiso), 1909	Lakewood, Ohio
Chan, Iu Choo, B.S. (Hong Kong Univ.), 1916	Canton, China
†Chan, Seward Cheung	Canton, China
Chao, Kuo Tung	Shanghai, China
Chao, Chuan	Peking, China
Chapman, Margaret Lyon	Port Richmond
Chapin, Leila, A.B. (Smith), 1911	East Bloomfield
*Chapman, (Mrs.) Esther Stanton	Ithaca
*Chardon, Charles E.	Ponce, Porto Rico
*Chase, Lila May	Glens Falls
*Chatman, Richard Clay	Greensboro, N. C.
*Chesbro, May Louise	Fairport
Chevalier, Grace Bernice	Harford
Chiavetta, Thomas Charles	Brant
Chien, Chih Lan, B.S., 1917	Chekiang, China
Christianson, Christian	Butler, Pa.
*Christian, Mary Katherine, B.S. (Teachers Coll.), 1911	Lexington, Ky.
Chu, Kea Hin	Shasi, China
Chu, Pin-Kwei	Hangchow, China
Churchyard, Elizabeth Thompson	Buffalo
Civitts, Ruth Evelyn	Pittsburgh, Pa.
Clark, Charles Parsons, B.S., 1915	Skaneateles
Clark, Edna Anne, B.S. (Geo. Wash. Univ.), 1893, M.S. (same), 1896	Washington, D. C.
*Clark, Helen Scureman, B.S., 1917	Kingston, Pa.
Clark, Marguerite Eldora	Village Station, Derry, N. H.
Clarke, Helena Louise	Whitney Point
*Clarke, Ruth Adelle	Whitney Point
Cleeves, Henry White	Meadow Brook
*Clement, Olive Marie	Albion
Clinton, Charles Lewis	Ithaca
*Cobb, Harold Vernon, A.B. (Univ. of Me.), 1914	Hudson
Cockcroft, Katharine Emily	Upper Troy
Coffin, Gertrude Meretta	Coraopolis, Pa.
Coggeshall, Henry Gerald	Waterville
Cohen, Julian Seeman	New York City
*Coker, Dorothy Frances	Brooklyn
Coburn, Doris Jessie	Antrim, N. H.
*Collins, Anna Beatrice	New York City
*Collins, Frances Augusta	Ossining
Collins, Winifred Ruth	Canton, Pa.
†Colson, Myra Hill, B.S. (Fisk Univ.), 1915	Petersburg, Va.
Colville, Elise Hildegard, A.B. (Hunter), 1912	New Brighton
†Colvin, Frances Mary, M.E. (California, Pa. State Normal), 1913	Monongahela, Pa.
Coman, Grace Elizabeth, A.B., 1905	Hamilton
Coman, Harriet Jeannette	Hamilton
Combs, William Charles	Rochester
Conklin, Lena May	Ithaca
*Conlon, Ethel Stevens	Ithaca
*Conlon, William Sylvester, B.S. (Colgate), 1909	Owego
Conradi, Elsa Sophie	Baltimore, Md.

- Conway, Walter Francis
 Cook, Emilie
 Cookingham, Myrtle Ellen
 *Cooper, Edna De Bevoise
 *Cornell, Esther Stuart, A.B. (Bryn Mawr), 1912
 Cornwell, Ralph Thomas Kline
 Cortina, Cesar
 Coulter, Helen Ridgely, A.B. (Goucher), 1909
 *Countryman, Avis
 Covell, Spencer Albert, B.S. (Ore. Agr. Coll.), 1914
 Covington, William Slaughter
 Cowdrick, Myrl
 Craig, Joseph Eddy Gillingham
 *Craig, Christiana
 *Craig, Helen
 *Cramer, May Belle, A.B. (Syracuse), 1908
 Crance, Edna Almyra
 Crane, Ruth Louise, B.A. (Mt. Holyoke), 1915
 †Craugh, Joseph Patrick, A.B. (Holy Cross), 1914
 *Crea, Eliza Banks
 Creager, Paul Snyder, A.B. (Penn. Coll.) 1913, A.M. (same), 1917
 Creel, Mary Gertrude
 Crone, Thomas Harold
 *Cross, (Mrs.) Josephine G.
 Cuffe, Frederic William
 *Culbert, Jane Fullerton, A.B. (Vassar), 1904
 Culp, Viola Corine
 †Cummings, Jane, A.B. (William Smith Coll.), 1912
 †Cumming, Sarah Anne, A.B. (William Smith Coll.), 1916
 *Cummings, Grace Eleanor
 Currier, Helen Lois, B.A. (Univ. of Minn.), 1911
 †Curtin, Harriet Louisa
 Curtis, Walter Earle
 *Curtiss, Leon Francis, A.B., 1917
 Cushman, Stewart Allerton
 *Cutter, Mary Gantley Morris, B.A. (Hunter), 1906
 Cutolo, Francis, jr.
- Daley, Dorothy
 Dalton, James Ward
 Dalton, Lillian M.
 Danes, Albert Spencer
 *Daniels, Helen Marion
 Dann, Jennie Lee
 Davidson, (Mrs.) Hester Cunningham, A.B. (Oliver), 1910
 †Davis, Ella Jenkins, A.B. (Earlham), 1904
 †Davis, Helen Phelan
 Davis, Jessica
 Davis, Ruby, B.A. (Earlham), 1903
 Day, Carolyn
 Day, Ezra Halsey
 *Dean, Eva Mae
 Decker, Mabel Swartz
 *Deegan, Marion Agnes
 Degener, Grace Ellen
 *Deiderich, Raymond Herbert
 Dein, Dorothy Ruth
 Demaree, Claire Rebecca
 Denman, Margaret Catherine
 Dennis, Eunice Elizabeth
 *Denny, Mattie Craig
 *DePorte, Joseph Vital, A.B. (Univ. of Okla.), 1912, A.M. (Princeton), 1914, Ph.D. (Cornell), 1916
 *Detweiler, John Detweiler, B.A. (Queens), 1912, M.A. (same), 1913
 DeVoe, Nina Mabei
 *Dexter, Mary Helen
 Dial, Morse Grant
 *Dibble, George Turner
 Dickinson, Bessie
 Dickson, Elizabeth
 Diehl, Leola Marvin
 *Diemer, Caroline May
 Dillard, Vassull Edgar
 *Dines, Anna Amelia
 *Dinneen, Mabel Alice
 Doane, William Allison
 Dockham, George Herring
 †Dodge, Franklin Oscar
 *Dodge, Mabel Foster
 *Donley, Robert Stephen
- Ithaca
 Pittsburgh, Pa.
 Cherry Creek
 Northville
 White Plains
 Northumberland, Pa.
 Ithaca
 Baltimore, Md.
 Poland
 Corvallis, Ore.
 Auburn
 Williamsport, Pa.
 Rosemont, Pa.
 Whitesboro
 Whitesboro
 Cortland
 Ithaca
 Machias, Maine
 Penn Yan
 Mars, Pa.
 Gettysburg, Pa.
 Morgantown, W. Va.
 Rochester
 Gowanda
 Toronto, Canada
 Brooklyn
 Canton, Ohio
 Geneva
 Geneva
 Philadelphia, Pa.
 Minneapolis, Minn.
 New York City
 Telford, Pa.
 Naples
 East Aurora
 Flushing
 Jamaica
- Brooklyn
 Gouverneur
 Philadelphia, Pa.
 Patchogue
 Dunkirk
 Monticello
 Ithaca
 Philadelphia, Pa.
 San Bernardino, Cal.
 Ithaca
 Moorestown, N. J.
 Swarthmore, Pa.
 Wortendyke, N. J.
 Angelica
 Wilkes-Barre, Pa.
 New York City
 Philadelphia, Pa.
 Candor
 Honesdale, Pa.
 Newport, Pa.
 Ithaca
 Whitehall
 Charles-Town, W. Va.
 Ithaca
 Kitchener, Ont., Canada
 Atlantic City, N. J.
 Cortland
 Fargo, No. Dak.
 Lima
 Highland
 Buffalo
 Cresskill, N. J.
 Rochester
 Washington, Ind.
 Pittsburgh, Pa.
 Ellicottville
 Truro, N. S., Canada
 Manchester, N. H.
 Stratford
 Brooklyn
 Buffalo

Donnelly, Regina Alice	Olyphant, Pa.
Dorsey, Amy Evelyn	Scranton, Pa.
*Doud, Edith N.	Fillmore
Douglass, Joy	Indiana, Pa.
Douglass, Marian Amelia	Paxtang, Pa.
Drake, Eliza May	Arcade
Drake, Stanley Eugene	Hawley, Pa.
*Driscoll, Alice Mary	Ithaca
Driscoll, Cecilia Catherine	Ithaca
†Driscoll, Julia Teresa	Ithaca
*Driscoll, Lucy Angela	Ithaca
*Driscoll, Teresa Margaret	Ithaca
Duffies, Edward Lowe	Washington, D. C.
Duffy, Katharine, B.S. (N. Y. Univ.), 1912	Woodhaven
†Dufour, Arline	Washington, D. C.
Dundon, Shirley Dorothy	Louisville, Ky.
†Dunnells, Cora Krutford	Washington, D. C.
†Dunwoody, Halsey, B.S. (Geo. Wash.), 1913	West Point
*Durfee, Mabel Marshall	Arlington, R. I.
*Duryea, Beatrice Louise	Johnson City
Dusman, Gilbert Henry	York, Pa.
*Dysinger, Albert Duane	Spencer
Eames, Angie Virginia	Philadelphia, Pa.
†Earle, Clara Carroll	Easton, Md.
Earley, Albert, B.S. (Dickinson), 1910	Plainfield, N. J.
*Eccleston, Howard Ballou	Johnson City
*Ecke, Cornelia Katherine	Bellevue, Pa.
*Ecke, Margaret	Bellevue, Pa.
Eckhardt, Bertha Katherine	Folsom, N. J.
Edmunds, Robert Curliss	Denver, Colo.
Edwards, John Chubbuck	Hamilton
*Eighmey, Leah Williams	Cohoes
Eisenbrandt, Frederick Henry	Baltimore, Md.
*Ehrenberg, Leonora, B.A. (Hunter), 1900	New York City
Eells, Kate Gay, A.B., 1903	Walton
Eldridge, Norma Serviss	Glen Ridge, N. J.
Elli, Eduardo Luis Enrique, A.B. (Arg. Nat. Coll.), 1915	Santiago del Estero, Arg. Rep.
Elliott, Lucile Ware	Terra Alta, West Va.
*Ellis, Bertha Maude, A.B., 1916	Lockport
Ellison, Cora Lee	Ithaca
Elsbree, Anna	Ithaca
†Elwell, Dorothy Alice	Buffalo
Emerson, William Harold	Ithaca
†Emory, Mary Annette	Washington, D. C.
Enos, Everett Emerson	Gouverneur
Ensworth, George Frederick	Westfield, Mass.
Eppes, Eva Taylor	Stony Creek, Va.
Erb, Henry Guy	Shamokin, Pa.
*Erben, Elsie Alethe	Albany
*Ernest, Lillian Elizabeth	Pittsford
Estes, Wellborn	St. Louis, Mo.
Evans, (Mrs.) Blanche Estelle Kahler, B.A. (Univ. of Cincinnati), 1897	Cincinnati, Ohio
Evans, Earl Radford	Great Barrington, Mass.
Evans, Grace Erminia	Lancaster, Pa.
Everett, Clara Jane	Gouverneur
Eyster, Charles Warren	Salem, Pa.
Farnham, Edith Anna, B.A. (Wellesley), 1914	West Newton, Mass.
*Farman, Edith McElwain	Jamestown
*Farnham, Gertrude Julia	West Newton, Mass.
†Farrell, (Mrs.), Helen Wales B.A. (Wellesley), 1904	Stoughton, Mass.
Farrell, John Thompson, jr.	Providence, R. I.
†Feldman, Mina Louise	Brooklyn
Feldsine, William Carroll	Poughkeepsie
Fetterhoff, Flo Jessie	Tyrone, Pa.
*Ferrier, Elsie Harriett	Philadelphia
†Fess, Gilbert Malcolm, Ph.B. (Alfred), 1912, A.M. (Syracuse), 1914	Crittenden
Finkelstein, Merwin Jesse	Wellsboro, Pa.
Finkernagel, William Edward	New York City
†Finley, Anna Jane	Pittsburgh, Pa.
Finley, Ella Jane	Philadelphia, Pa.
Finley, Ida Mae	York, Pa.
Fish, Elinor Mary	Ithaca
Fisher, Donald	Weedsport
Fisher, John Edward	Ithaca
Fisher, Ruth Merrill	Bound Brook, N. J.
Fiske, Cora Etta	Weehawken, N. J.
*Fitch, James Harold	Truro, N. S., Canada
†Flather, Alice Virginia, A.B., 1917	Nashua, N. H.
†Fleagle, Rena B.	Springfield, Mass.

- Fleming, Ethel Marie
 *Fleming, Katharine Martina
 *Fleming, Marion Catherine
 Flemming, Edwin George, LL.B. (Univ. of Buffalo), 1910, A.B. (Cornell), 1915
 *Fletcher, Grace Louise, A.B. (Vassar), 1911
 Flockhart, Marguerite Craig
 *Flood, Julia Vera
 Fluegel, Helma
 *Foley, Anna Marie
 *Folts, Jessie Lucinda
 *Fonda, Cornelia Dockstader
 Foard, Laura Belle, A.B. (W. Md. Coll.), 1910
 †Forchheimer, Estelle, A.B. (Normal Coll.), 1893, Pd.M. (N. Y. Univ.), 1896, B.S. (Hunter), 1915,
 Forchheimer, Marjorie Bazan
 †Foster, Hannah Louise
 Fox, Henrietta Agnes
 Frank, Ruth Anna
 Frantze, Julius Johnson
 Fraser, Edna
 Frear, (Mrs.) Florence Dodge
 *Frear, Irene Louise, A.B. (Barnard), 1913
 †Freeman, Beulah Dorothy
 Frerichs, Clara Estelle
 Freston, Julian Maxwell
 Freyberg, Margaret
 †Friedlander, Ida Cohn
 *Friedlander, Louis
 Friedrich, John Charles
 Froehlich, Frederick William
 Frosch, Valerie Elfrieda
 †Fuhrmann, Elizabeth Mary
 Fuller, Avery Edward
 Fuller, Frederick Wharton, B.S. (Pa. State Coll.), 1914
 Fulton, Elizabeth Mills
 *Fyfe, Persis Elizabeth
 Gaddis, Trimble Margaret
 Gager, Howard Winthrop
 *Gallagher, Katharine Eleanor
 Gammell, Ella Romaine
 Gann, Louise Margaret
 Gardiner, Henry Wallace, A.B. (Univ. of Mich.), 1912
 *Gardinier, Ruth Evangeline
 Garfiel, Evelyn
 Garlick, Edith Shaw
 Garrett, Violetta, A.M. (Univ. of Kansas), 1915
 *Garrison, Henry Munson
 Gass, Isabel Johnston
 *Gates, Catherine Louise
 Gaus, Albert Richard
 Gause, Ella Townsend
 Gaver, Ella Fairbanks
 Gavin, Joseph Samuel Leo
 †Gaynor, Madeline Agathe, B.S. (Elmira Coll.), 1917
 Gehman, Harold Bomberger
 Gennis, Milton H.
 George, Ella Trumbauer
 *Geran, Eleanor
 Gerhard, Alice Hill, A.B. (Bryn Mawr), 1907
 Gerhard, Elizabeth Hill, A.B. (Bryn Mawr), 1904, A.M. (same), 1912
 Gerhard, Martha Eleanore
 Gerow, Lilian Frances
 Gill, Nellie Frances
 Gillette, Kenneth Gordon
 Glaser, Jerome
 Glant, Mary Helen
 Gminder, Elizabeth
 †Goddard, Gladys Adeline
 †Godfrey, Joseph Edwin, B.S., 1914
 Godshaw, Stella
 Goldberg, Elias
 *Goldstein, Rose
 *Goodwin, Margaret Shippen
 †Gordon, Mary
 Gordon, Stewart Henry
 Gorlin, Lillian
 Gorsuch, Gertrude Louisa
 Gould, Clifford Morton
 Pittsburgh, Pa.
 Cohoes
 Brooklyn
 Buffalo
 Norwood
 Newark, N. J.
 New York City
 Erie, Pa.
 Pittsburgh, Pa.
 Herkimer
 Fonda
 Forest Hill, Md.
 New York City
 White Plains
 Cream Ridge, N. J.
 Brooklyn
 Arcade
 Jamesburg, N. J.
 Port Huron, Mich.
 Albany
 Albany
 Honesdale, Pa.
 Lakewood, Ohio
 Milton
 Reed City, Mich.
 New York City
 New York City
 Red Wing, Minn.
 Harrisburg, Pa.
 Herkimer
 Trenton, N. J.
 Holley
 Altoona, Pa.
 Massena
 Brooklyn
 Washington, D. C.
 Columbus, O.
 Ithaca
 Bethany, Pa.
 Jersey Shore, Pa.
 Clarendon, Va.
 Windsor
 New York City
 Paterson, N. J.
 Lawrence, Kans.
 Phelps
 Pittsburgh, Pa.
 Maine
 Pittsburgh, Pa.
 Atlantic City, N. J.
 Orrville, Ohio
 Buffalo
 Elmira
 Lancaster, Pa.
 Dolgeville
 Sellersville, Pa.
 Ithaca
 Lancaster, Pa.
 Lancaster, Pa.
 Lancaster, Pa.
 Boston, Mass.
 Scranton, Pa.
 Grahamsville
 Sayre, Pa.
 Bareville, Pa.
 Baltimore, Md.
 New Salem, Mass.
 Ithaca
 Cincinnati, O.
 Petrograd, Russia
 Brooklyn
 Philadelphia, Pa.
 Avoca, Pa.
 Rochester
 Newark, N. J.
 Fork P. O., Md.
 Horseheads

- †Gow, Grace Marie, A.B. (Upsala Coll.), 1917
 Graham, Frances Leonora
 †Graham, Vi Arvin, B.A., 1917
 Gratricks, Cora Jane, Pd.B. (State Normal Coll.), 1906
 Graves, William Brooks
 *Gray, H. Paul
 Green, Ethel
 *Green, Robert Sylvester
 †Greenberg, Henry Wolfe
 *Greene, Natalie Marr
 †Greiff, Lotti June, A.B. (Barnard), 1911
 *Griffin, Edna Mae
 Griswold, Arthur Sheldon
 †Griswold, Grace Hall
 *Gross, Cornelia Miriam, A.B. (Hunter), 1904
 *Guiles, Marion Hitchcox

 Hadley, Lucy May, A.B. (Salem Coll.), 1914
 Hadsell, Susan Platt
 Halbert, Leah Dorothy
 Haley, Francis Ambrose
 †Hall, Marion Marshall
 *Hall, Zilpha Cleora
 *Halsted, Katherine Louise, B.A. (Univ. of Rochester), 1912
 *Hamilton, Marian, B.S. (Teachers Coll. Columbia), 1917
 Hand, Stanley
 Hanford, Russell Evans
 Hankins, Francis William
 Hannigan, James
 Harker, Edith Ridgway
 Harmon, Esther, A.B. (Michigan), 1906, Ph.D. (Bryn Mawr), 1912
 *Harmon, Lucie, A.B. (Univ. of Mich.), 1910
 Harris, Edna
 Harris, Martha Elizabeth
 Harrison, Elizabeth Follansbee
 Hart, Jessie Mabel
 *Harvey, Regina Evelyn
 Hatch, Grace Emma
 Hau, Me-iung
 *Hauerwas, Frances Agnes
 Haughenbury, Elizabeth French
 Havey, Joseph Perry
 Hay, Frances Steele, Ph.B. (Univ. of Chicago), 1897
 Haydock, Walter Howe
 *Hayes, Anna Elizabeth, B.S., 1915
 Hazell, Cyril Ebenezer
 †Heacock, Lawrence
 *Hedrick, Mabel
 Heenan, Florence May, A.B. (Colo. State Teachers Coll.), 1915
 *Heffernan, Loretto Catherine
 *Heffernan, Mary Margaret
 Heggem, Charles Oliver, jr.
 Heimburg, Lawrence Eugene
 Hemphill, Rayburn Weeks
 Henderson, Caroline Beryl
 Hendrie, Charles Francis
 Hendryx, Harriet Evelyn
 *Hendryx, Olga May
 *Henricus, Ralph Charles
 Henry, Lillian
 Hequembourg, Edward Grant
 Heraty, Edna
 Hernandez, Julio
 *Herson, Gertrude R.
 Herz, Monroe
 Heyburn, Elwood Mitthener
 †Heymann, Emily Fleischmann, B.A. (Hunter), 1896
 †Heymann, Theodore Seymour
 Hibbard, Laura
 Hildreth, Alan Ellsworth
 Hillas, James Garniss
 Hinchman, Robert Mills
 Hinman, Nellie May
 Hipson, Caryl Blaine
 Hirst, Alice Harman
 Hiscock, George Singleton
 *Hitchcock, Belle Lillian
 Ho, Yun Huang
 †Hochheimer, Rita, A.B. (Barnard), 1909
 Hogan, Agnes Cecelia

 Kenilworth, N. J.
 Elba
 Richmond, Va.
 Medina
 Gouverneur
 Pine Plains
 Elizabeth, N. J.
 Brooklyn
 Flushing
 Brooklyn
 New York City
 Ithaca
 Cortland
 Grand Rapids, Mich.
 New York City
 Elmira

 Mt. Airy, N. C.
 Buffalo
 Cincinnati
 Watertown
 Whitehall
 Preston
 Rochester
 South Norwalk, Conn.
 Smithtown Branch
 Ithaca
 Auburn
 Forty Fort, Pa.
 Charlottesville, Va.
 New York City
 Milwaukee, Wis.
 Upper Montclair, N. J.
 Duryea, Pa.
 Bloomfield, N. J.
 Philadelphia
 Carthage
 Hudson Falls
 Shanghai, China
 Albany
 Coudersport, Pa.
 Yonkers
 Washington, D. C.
 New York City
 Ithaca
 Alpena, Mich.
 Salem, Ind.
 Delmar
 Clairton, Pa.
 Cazenovia
 Delphi Falls
 Massillon, Ohio
 Angola
 Akron, Ohio
 Vineland, N. J.
 Brooklyn
 Ithaca
 Johnson City
 Natural Bridge
 Millville, N. J.
 New York City
 Bayonne, N. J.
 Cardenas, Cuba
 Brooklyn
 Elmhurst
 Spokane, Wash.
 New York City
 New York City
 Cincinnati, Ohio
 Southampton
 West Hoboken, N. J.
 Westfield, N. J.
 Schoharie
 Norwalk, Conn.
 Cincinnati, O.
 Southampton
 Syracuse
 Wuchang, China
 New York City
 Ithaca

Holbrook, John Knight, jr.	Ithaca
*Hollenbeck, Beatrice Sarah	Candor
*Hollingsworth, Arthur Liddle	Utica
*Hollis, Arthur	Whitesboro
*Hollister, Harold Edmund, A.B. (Middlebury), 1917	Corinth
Holroyd, Ella Lively	Princeton, W. Va.
Hosmer, Harriet	Buffalo
*Hotchkiss, Edna Ruth	Ithaca
*Howe, William Augustus, A.B. (Hobart), 1915	Phelps
Howell, Henry Elmer	Philadelphia, Pa.
Hoyt, Mary Katherine	Cohocton
Hsu, Kwung	Wusih, China
Huang, Chang-ku, B.S. (Pei-Yang Univ.), 1914	Wuchang, China
Hudson, Marian Naomi	Portland, Maine
Huey, Bess A.	Ravenswood, W. Va.
*Hunt, Josephine	Albion
Hyde, Harriette, B.A. (Wellesley), 1915	Watertown
Icasiano, Abelardo Reyes, A.B. (Ateneo de Manila), 1909	Bulaca, Bulacan, Philippines
Ingles, Helen Flagg, A.B. (Swarthmore), 1917	Philadelphia, Pa.
Irwin, Florence	Rochester
*Irwin, George Washington	Alcorn, Miss.
Jackson, Elizabeth Ellis	Tazewell, Va.
Jackson, Jerome Jacob	New York City
Jackson, Ocea Mae	Ithaca
Jacob, Elsa Blanche	Honesdale, Pa.
Jacobs, Isabel Maud	Philadelphia, Pa.
†Jacobs, Virginia Brandon	Philadelphia, Pa.
James, Marie Cecilia	Washington, D. C.
Jamison, Alvaretta, A.B. (Geneva Coll.), 1913	Beaver Falls, Pa.
†Jamison, Beulah Belle	Eau Claire, Pa.
Jampol, Max	New York City
Jenkins, Mary Elizabeth	Bethlehem, Pa.
Johnson, Catharine Rawlings	New Rochelle
Johnson, Davies	Camden
†Johnson, Elna Edwardine	New York City
*Johnson, Etta Rawlings	New Rochelle
Johnson, Grace Eleanor, B.A. (Vassar), 1914	Canandaigua
*Johnson, Helen Gaylord, A.B. (Oberlin), 1911	Hartford, Conn.
Johnson, Helena Adelina	Winlock, Wash.
*Johnson, Ida Wilhelmina	New York City
*Johnson, (Mrs) Jessie Martin	Lake George
*Johnson, Jushild Victoria	Rome
Johnson, Lola	Madison, Ind.
Johnson, Mary Edmunds	Indianapolis, Ind.
†Jones, Gwendolyn Hope	Crandell, N. J.
Jones, Harry Mease	Pine Grove, Pa.
Jones, Hilda Rachel	Braddock, Pa.
*Jones, Minnie	Johnstown, Pa.
Jones, Miriam Millette	Philadelphia, Pa.
*Jones, (Mrs) Olivia Miller	Brookton
Jones, T. Ralph	Eagle Pass, Texas
†Jordan, Anna Gertrude	Geneva
*Jordan, Catharine Helen, B.A. (William Smith Coll.) 1915	Geneva
Jordan, Elizabeth, A.B. (Randolph-Macon Woman's Coll.), 1916	Pulaski, Va.
Joseph, Louis Weinman	Warrensburg
*Jost, Bessie Lavinia, B.S. (Simmons Coll.), 1915	Jamaica Plain, Boston, Mass.
*Judd, Carolyn Belle	Worcester
Karp, Marie Antoinette	Rochester
Karsten, Henry	Highland Falls
*Kasner, Walter	Ithaca
†Keever, Paul, B.Sc. (Muhlenberg), 1912	West Chester, Pa.
Keinard, Sara Geneva	Phoenixville, Pa.
Keller, Bert Dewey	Rochester
Keller, Edith Myrtle, B.A. (Ohio Wesleyan), 1908	Delaware, Ohio
Keller, Ruth Cecelia, A.B. (Western Md. Coll.), 1915	Grantsville, Md.
*Kellert, Charles	Albany
*Kelley, Bertha Ada	Newark
Kellogg, Florence Julia	Adams
*Kelly, Glenn Muirdun, A.B. (Colgate Univ.), 1917	Oriskany Falls
Kelly, Miriam Anna	Minersville, Pa.
Kemmerer, Mildred	Allentown, Pa.
Kennard, Virginia Gladys, A.B. (Barnard), 1917	Tarrytown
Kennedy, Frank Atkinson	Ithaca
*Kennedy, James Arthur	Dannemora
Kennedy, Louise Ruth	Washington, N. J.
Kennedy, Thomas Walker	Pittsburgh, Pa.
Kester, Elisha Howard	Newton, Pa.

Kincaid, Margaret, A.B. (Vassar), 1917	Brooklyn
*King, Arla Fairbank	Norwich
King, Theodore Franklin, jr.	Chattanooga, Tenn.
Kissel, Mabel Lilian	Lima, Ohio
†Kitchin, Gladys	Salem
*Klein, John Joseph, A.B., 1913, A.M., 1914	Brooklyn
Klein, Ruth	Newark, N. J.
Klepper, Helen Mathilda	Greencastle, Pa.
Klingel, Mary Hilda	Dalton, Pa.
Klingelhofer, Louis Oliver	Pittsburgh, Pa.
*Knapp, Isabel	Poughkeepsie
*Knauz, Marie Bertha	Pittsburgh, Pa.
Knowles, Edith Gray	Chestnut Hill, Pa.
Kobuskie, Agnes Marie	Gloversville
Koehnke, Jeanette Drews	Vineland, N. J.
*Koerner, Grace Elizabeth, A.B. (Vassar), 1912	Huntington
Korb, LeRoy Hauck	Newark, N. J.
†Kraft, Louise Helene	Honesdale, Pa.
Kressler, Anna Margaret	Easton, Pa.
Kretschman, Magda, A.B., 1909	Brooklyn
Kuhn, Mildred Josephine	Buffalo
Kulp, Isabella Nancy	Harrisburg, Pa.
Kunsman, Mamie Esther	Stone Church, Pa.
Kuo, Cheng-Chih	Shanghai, China
*Kurzman, Melville	New York City
Kwaan, Hon-Kwong	Ithaca
*Laird, Kenneth Bradford, B.Sc. (Mass. Agr. Coll.), 1916	Brocton, Mass.
Laird, Olga Rose	Phelps
Lake, Edna Fraleigh, A.B. (Vassar), 1914	Poughkeepsie
Lake, Michael	New York City
Lallou, George Edward Spotz	Philadelphia, Pa.
*Lambert, Clarissa Marie	Union
*Lang, Ethel Mary	Albany
†Land, (Mrs) Erma Lindsay, A.B., 1911, A.M., 1913	North Tonawanda
Lang, Helen Elizabeth	Galveston, Tex.
*Larkin, Margaret Ellen	Newfane
*Lask, Clara	New York City
Lathrop, Francis Cuming, 2d	Wayne, Pa.
*Lattin, Genevieve Howie	Watkins
Lau, Lo Naam	Winlok, Hong Kong, China
Lautenbacher, Ruth Ann	Schuylkill Haven, Pa.
Lawrence, Bertha	Phillipsburg, N. J.
*Leary, Ellen Agnes	Colton
Lee, Evelyn Marcella	New York City
Lee, Florence Annie	Hillsboro, N. H.
Lee, Hilda Voss	Atlantic City, N. J.
*Leenhouts, Bertha Mae	Williamson
Legge, Nina	Ithaca
Lehmann, Alvin Stanley	Peoria, Ill.
Leidt, Edna Julia	Buffalo
Leighton, Eleanor	Walton
Leistern, Ida, A.B. (Hunter), 1912	New York City
Lenahan, Edwin Joseph	Buffalo
de Leon, Luis, A.B. (Ateneo de Manila)), 1914	San Miguel, Balacan, P. I.
Leonard, Alice Catherine	Wilkes-Barre, Pa.
†Leonard, Dorine Lewis	Malone
*Lepetes, Beatrice, A.B. (N. Y. Normal Coll.), 1905	Brooklyn
Levis, Sarah Elizabeth	Philadelphia, Pa.
Levy, Dorothy Franklin	Philadelphia, Pa.
Levy, Elmer DeRoy	Newark, N. J.
Lewis, Elsie Lee, A.B. (Goucher), 1911	Govans, Md.
Lewis, Nellie Adelaide, B.A. (Wellesley), 1900, Pd.B. (Albany Normal Coll.), 1902	Catskill
Liao, Wei Tsu	Foochow, China
Lickley, Mary Ethelyn	Peekskill
Lindau, Sigmund Bach	New York City
Linder, Mary Anna	Syracuse
Ling, Chen Ping	Rochester
Linn, Bonnie Alice	Lima, Ohio
Littlejohn, Elfleda	Galveston, Tex.
Littlejohn, Liska	Galveston, Tex.
Liu, Cheng-Fang	Shanghai, China
Liu, Cheng-lin	Hanyang, China
*Livingston, Isadora	Clintondale
†Long, Myrtle May	Tarentum, Pa.
Longstreet, Florence Edna	Brooklyn
*Loomis, Isabel Trembley	Brooklyn
*Lorimer, William Leroy, Ph.B., A.B. (Westminster), 1911	Essex
Lovell, Natalie Colt	Brooklyn
Lovett, Godfrey Mills	Mount Vernon

- *Low, Margaret Juanita
 Lowman, Henry Mather
 Lowry, Elizabeth McCartney
 Lu, Feng-Shu
 Lucas, Sophie Louise
 Lumsden, Arthur Ernest
 Lund, Gabriel Emanuel
 Luscher, Mary Elizabeth
 Lynch, Frances Mathilde, A.B. (Goucher), 1912
 *Lynch, Helen Clyde
 Lynch, Lucy Greene
 †Lynch, Mary Margaret
- *McAllister, Josephine A.
 *McAlpine, Florine
 MacArthur, Madeleine
 *McAuley, Miranda Ophelia
 MacAvoy, Mary Mildred
 *MacBain, Olive Eva
 MacBean, John Peter, jr.
 McBerty, Ford Hapgood
 McCarthy, Mary Margaret
 McClatchy, John Benjamin
 McCowan, Susan
 †McDaniel, Harriet
 *MacDaniels, Frances Cochran, A.B. (Oberlin), 1912
 McDonald, Angus
 *MacDonald, Araminta
 MacDougall, James Campbell
 MacDuffee, Cyrus Colton, B.S. (Colgate), 1917
 *McElhney, Clara Belle
 MacFarland, Marion Pennypacker
 McGalliard, Mildred
 McIlhenny, Ruth Anna
 *McKay, Helen Barnes
 †McKee, Madge, A.B. (Indiana Univ.), 1902
 *McKee, Vesta
 MacKellar, Gordon
 McKenna, Celestine
 Mackenzie, Christina Cameron, B.A. (Elmira), 1904
 MacKeown, Isabel Semple
 McKistry, Ross Waldron
 *MacLaury, Robert Haines
 *MacLay, Donald Edwin
 McNally, Mary Elizabeth
 Macpherson, Ann, A.B. (Univ. of Pittsburgh), 1916
 Macy, Albert Hall
 *Magill, Daisy Elouise
 †Magown, Harriet Hatch
 Mallory, Burton Cowles
 Mallory, Margaret Lord
 Maloney, Bessie Lenore
 Maloney, William Michael
 *Manning, Florence Della
 Manning, Margaret
 Mans, Edith Irene
 Marcoglou, Aristides Sawas
 Marconi, Janette Vincentia, A.B. (Hunter), 1912
 Mariana, Ethel Cecilia
 *Markley, Ella May
 Marmon, Josephine Dora
 Marshall, Dorothy Marie
 *Martin, Edna Marguerite
 *Martin, Elma Gillespie, Ph.B. (Denison Univ.), 1907
 Martin, Mabel
 *Martin, Mary K.
 Martin, Miriam Emily
 Martin, Reba Minerva
 Martins, Abilio Pinto
 Marx, Abraham Bass
 Marx, Ellen Hedwig
 Marx, Tillie
 Marx, Walter
 *Maschmedt, Marie, B.A. (Barnard), 1911
 Matakonsky, Harry
 *Mathewson, Maude Amy
 Maurillo, Dominick Francis
 *Maxon, Katherine Nichol
 Meaker, Julia Simpson
 Meinhold, Louis
- Brooklyn
 Cleveland, Ohio
 Indiana, Pa.
 Kiang-Su, China
 Brooklyn
 Ithaca
 Kristiania, Norway
 LeRoy
 Baltimore, Md.
 Pittsburgh, Pa.
 Washington, D. C.
 Athens, Pa.
- Ithaca
 Penn Yan
 Pittsburgh, Pa.
 Salina, Pa.
 Brownville
 Watervliet
 Philadelphia, Pa.
 Ithaca
 Buffalo
 Merion, Pa.
 LeRoy
 Ithaca
 Ithaca
 Louisville, Ky.
 Delhi
 Phoenixville, Pa.
 Oneida
 Peruville
 West Chester, Pa.
 Trenton, N. J.
 Gettysburg, Pa.
 Waterford, Pa.
 Goodland, Ind.
 Newfane
 Hazleton, Pa.
 Carbondale, Pa.
 Elmira
 Waldwick, N. J.
 Chicago, Ill.
 Roxbury
 Buffalo
 Ithaca
 Pittsburgh, Pa.
 Newton, Pa.
 Little Falls
 Haddonfield, N. J.
 New Britain, Conn.
 West Hartford, Conn.
 Rochester
 Perth, Ont., Canada
 Brookton
 Clayville
 Hazleton, Pa.
 New York City
 New York City
 Atlantic City, N. J.
 Pittsburgh, Pa.
 Lima, Ohio
 Niagara Falls
 Wilson
 Montour Falls
 Maplewood, N. J.
 Ithaca
 Orange, Mass.
 Philadelphia, Pa.
 Rio de Janeiro, Brazil
 New York City
 Newark, N. J.
 Newark, N. J.
 Newark, N. J.
 Elmhurst
 Port Chester
 Norwich
 New York City
 Elmira
 Washington, N. J.
 New York City

Mereness, Kneeland Abram	Sharon Springs
*Merrill, Ella Patten	Brooklyn
Merrill, Hortense Maria	Farmington, Maine
Merrill, Ida Louise	Copenhagen
Merrill, Raymond Nathaniel	Springfield, Mass.
*Merriman, (Mrs) Marjorie Snow	Medina
Merriman, Paul Rossiter, A.B. (Miami Univ.), 1903	Medina
*Metz, Lillian Elizabeth	Kingston
Meyer, Carl William	Brooklyn
Meyerson, Hyman	New York City
*Milbank, Lee Borden	Los Angeles, Cal.
†Miller, Alfa, A.B. (Kansas Univ.), 1913	Lawrence, Kans.
Miller, Chester John	Altoona, Pa.
Miller, Eda Grace	Wilkes-Barre, Pa.
*Miller, Elizabeth Janet	Ithaca
*Miller, Esther Hattie	Albion
Miller, Harold Frederic	Seneca Falls
Miller, Marion Elizabeth	Bloomsburg, Pa.
Miller, Wayne Downing	Meriden, Conn.
*Miser, Caroline Moore	Union Springs
Mitchell, Buhla Sinclair, A.B. (Wilson Coll.), 1908, B.M. (Geneva Coll.) 1908	Beaver, Pa.
Moes, Margaret	Washington, D. C.
Moise, Lucius Clifton, B.A. (Univ. of S. C.), 1901	Sumter, S. C.
†Monroe, William Lottie	Briscoe, N. C.
*Montgomery, Charles Lynn	Berne
†Moon, Merl Perrott, A.B., 1915	Beaver Falls, Pa.
Mooney, Lawrence	New York City
Mooney, Thomas Sylvester	Cohoes
*Moore, Elizabeth Wright	Philadelphia, Pa.
*Moore, Marguerite Lois	Northville
Moore, Mary Eastman	Ithaca
Moorhead, Rubie Albirda	Wilkinsburg, Pa.
Moran, Charles Blake	Bernardsville, N. J.
Mordorf, Dorothy Alice, A.B. (Vassar), 1916	Brooklyn
Mordorf, Jeanne Reed, A.B. (Vassar), 1915	Brooklyn
Morgan, Frederick John	Brooklyn
*Morgan, Thomas Richard	Gilberton, Pa.
†Morgan, William Lionel, A.B., 1917	Honolulu, Hawaii
Morris, Mary Elizabeth	Oil City, Pa.
Morrison, John Alexander	Philadelphia, Pa.
Morrow, Geraldine	Camptown, Pa.
Morse, Alice Margaret	Arcade
†Morton, Marion Edna, B.A., (Boston Univ.), 1910	Ipswich, Mass.
Mosher, George Thomas	Philadelphia, Pa.
Mosier, Jeannette Pauline	Binghamton
Mourhess, Mary Harriette	Corning
Mowen, Aleen Kahle	Lima, Ohio
Mueller, Bertha J.	Philadelphia, Pa.
Muldowney, Mary Helena	Heckscherville, Pa.
Mullikin, Alfred	Baltimore, Md.
Murphy, Genevieve	Pittsburgh, Pa.
*†Murphy, Helen Elizabeth, B.S., 1917	Phoenix
Murray, Margaret Elizabeth	Brookline, Mass.
†Napier, Frances Ermina, B.A. (Adelphi), 1906	Montclair, N. J.
Nash, Clifford Roberts	Amherst, Mass.
*Near, (Mrs.) Edith Petrie	Canastota
*Neckritz, Flora, B.A. (Hunter), 1906	Brooklyn
*Neff, Edmund Wilfred	Harpursville
*Nelson, Hazel Warwick, B.A. (Adelphi), 1912	Brooklyn
Nesbitt, Mary	Moundsville, W. Va.
Newell, Annie Casper	Salem, N. J.
*Newell, Mary	Salem, N. J.
Newton, Muriel	Ithaca
Nicholson, Samuel Ralph	Wilkes-Barre, Pa.
Nicholson, Thomas Jesmond	Wilkes-Barre, Pa.
Nightingale, Donald James	New York City
Nixon, Inez	Montezuma, Ind.
Noble, Clarence Vernon	Ithaca
Norris, Katharine Augusta, A.B. (Vassar), 1901	Youngstown, Ohio
Norris, Olive Katherine, A.B. (Oberlin), 1905	Spencer
*Northup, John Winchester	Plattsburgh
†Noyes, Mary, B.A. (Mt. Holyoke), 1908	Haverhill, Mass.
*Nurick, Helen Dorothy, A.B. (Hunter), 1903	Brooklyn
*Nye, Eleanor Covington	Auburn
Oakes, Grace Sarah	Industry
Oberholtzer, Vera	Souderton, Pa.
O'Brien, Alice Elizabeth	Brooklyn
O'Brien, Charles X.	Elmira

O'Connor, Mary
 *O'Day, Lenora Celestine
 *O'Donnell, Theresa Agnes, A. B. (Hunter), 1912
 Oelkers, Marita
 *Oliver, Clara
 Oliver, Gertrude, Ph.B. (Wooster), 1916
 *Osborne, Olive Louise
 Ottley, Frances Mabel
 Oudin, Constance
 Overbaugh, (Mrs) Margaret Gibson

Pabst, Florence Muvir
 Packer, Marion Hazel
 Paine, Ruth Caroline, A.B. (Brown), 1916
 Palmer, Florence Lee
 *Palmer, Laura Alice
 Parke, Torsten Herbert
 *Parker, Theodore Gordon
 †Passmore, Sara Florence
 Patchel, Margaret Mary
 Patterson, Jessie Anders
 Patton, Cuyler Shaw
 Paulding, Margaretta Eckfeldt
 Paullin, Martha Grace
 Pearce, Ellen Rose
 Peare, Willard Chase
 Peet, Elizabeth
 Pennebaker, Mary Lucile
 Pennington, Ruth
 Penwarden, Kathryn Olive
 *Peterson, Ruth Edith Katherine
 *Pieczanka, Emilie, A.B. (Hunter), 1911
 *Pine, Janette
 Pines, Anna Martha
 Plagge, (Mrs.) Selma Torgler, B.M. (Chicago Conservatory), 1911
 *Platt, Emilie Louise, B.A. (Adelphi), 1911, M.A. (Cornell), 1913
 *Poirier, Aline Emma, A.B. (Hunter), 1913
 Poore, Leonard Lee
 Porter, Edith Louise
 Porter, Harry Wray
 Porter, Mary Barnes, A.B. (Western Md. Coll.), 1915
 *Post, Louise May, B.S., 1915
 Potter, Laura
 Potter, Mildred
 Potts, George Carson
 Powell, Eleanor Inez
 Previn, Siegfried
 Priddy, Jane Gustava
 Prieto, Ferdinand Garcia, jr.
 Prugh, Edwin Nevin, jr.
 Pujol, John B.
 *Purdy, Dorothy Winifred

Quayle, Harry

Radford, Alice Evelyn, Ph.B. (Univ. of Chicago), 1900
 Raffloer, William Rudolph
 Randall, Clarissa A.
 Ranke, Verna Dorothea
 Ralston, Mary Alene
 *Raplee, Jay Wixson
 *Raplee, (Mrs) Jay Wixson, A.B. (Bucknell), 1912, A.M. (same), 1913
 Ream, Louise Fern
 Reed, Ada Amanda, A.B., 1912
 Reed, Jane Riehl
 Reed, Ruth Agnes, A.B. (Vassar), 1910
 Regensburg, Edward Joseph
 *Renfer, Erna M.
 Rethy, Therese, B.A. (Hunter), 1914
 Reyes, Javier Vanga
 *Rhodes, Mildred Adelle
 Richey, Margaret Cecelia, A.B. (Columbia), 1913
 *Ridings, Mary Arch
 Riehman, Mathilde Martha
 †Righter, Jessie Harris, B.A. (Adelphi), 1904
 *Riley, Effey Lena
 Rites, Marion Buchause
 Rivera, Zoilo
 Robbins, Mildred Louise
 Roberts, Fred White

Erie, Pa.
 Salamanca
 New York City
 Brooklyn
 Ithaca
 Olean
 Albany
 Ithaca
 Schenectady
 Schenectady
 Anderson, Ind.
 Albany
 Apponaug, R. I.
 New Brighton
 Highland
 Chicago, Ill.
 Rochester
 Mendenhall, Pa.
 Philadelphia, Pa.
 Jackson, Ohio
 Akron, Ohio
 Daretown, N. J.
 Bridgeton, N. J.
 Pawtucket, R. I.
 Yonkers
 Washington, D. C.
 Los Angeles, Cal.
 Scranton, Pa.
 Honesdale, Pa.
 Ithaca
 New York City
 Hoosick Falls
 Lewisburg, Pa.
 Ames, Iowa
 Brooklyn
 New York City
 Ithaca
 Bridgeport, Conn.
 Oakland, Md.
 Oakland, Md.
 Ithaca
 Brooklyn
 Ithaca
 Philadelphia, Pa.
 Huntsville, Texas
 New York City
 Van Wert, Ohio
 San Miguel, Salvador, C. A.
 Bellevue, Pa.
 Bolondron, Cuba
 Ithaca
 Pontiac, Mich.
 Ithaca
 New York City
 Union City, Pa.
 Ellicottville
 Philadelphia, Pa.
 Ithaca
 Ithaca
 Crawfordsville, Ind.
 Ithaca
 Philadelphia, Pa.
 Canandaigua
 New York City
 Pittston, Pa.
 New York City
 Barceloneta, P. R.
 Greton
 Wilmington, Del.
 Lexington, Mo.
 Newark, N. J.
 Brooklyn
 Rochester
 Ithaca
 Ithaca
 New Hartford
 Denver, Colo.

*Robinson, Elmina Curtice	Geneseo
Roden, Henry Wisdom	Dallas, Texas
Roderick, Ida May	Hazleton, Pa.
†Rodgers, Harold Russell, B.S. (Grove City Coll.), 1916	Lima
Rodgers, Mary Catherine	Lewistown, Pa.
Roedel, Pearl Wheeler	Utica
*Roese, Minna Gesine	Buffalo
*Rooney, Agnes Catherine	West Winfield
Root, Helen Mariette	New Orleans, La.
Rosania, Gustave	Brooklyn
Rose, Ruth Elizabeth	Bridgeport, Conn.
Rosenbluth, Mathilde	New York City
Rothenberg, Janet Rose	New York City
Rothholz, Amanda Elizabeth	Atlantic City, N. J.
Rothwell, Alice Ermina, B.S. (Elmira), 1914	Elmira
*Rowlee, Silence	Ithaca
Rowland, Olive Lucile	Honesdale, Pa.
Rurode, William	Jersey City, N. J.
†Rusack, Gretchen, B.A. (Hunter), 1914	Catskill
Rutherford, Mattie Van Sickle	Jacksonville, Fla.
Ryan, Myra Sara	Dunkirk
Sack, Kelvin Norman	Hartford, Conn.
Sack, Samuel Albert	Hartford, Conn.
*Safer, Leo	Buffalo
†Samuro, Kakinchi, M.D. (Tokyo Univ.), 1907, Ph.D. (same), 1910	Tokyo, Japan
*Sanford, Mabel Louise	Utica
Schaefer, John Jacob Vogt	Pleasantville
Schaefer, Norma Ruth, B.S. (Columbia), 1915	Buffalo
*Schafer, Louis Herman	LeRoy
Scheel, Elizabeth A.	Philadelphia, Pa.
*Scheinzeit, Ruth	New York City
Schelder, Bernardine Veronica	Mansfield, Ohio
Scheltz, Mathias George	Ithaca
von Schenk, Kurt, A.B. (Harvard), 1913, M.S. in Agr. (Cornell), 1917	Rockville, Conn.
*Schindler, Theresa Elizabeth, B.A. (Mt. Holyoke), 1906	Gloversville
Schmid, Carl Julius	Montgomery
Schmidt, Gertrude Katherine	New Brunswick, N. J.
Schneider, Jerome George	New York City
*Schofield, Jennie	Bath
Scholborg, Alice Evelyn	Flushing
Schroeter, Robert Huber	Marion, Ohio
*Schuchart, Mary Ann, A.B. (Kansas Univ.), 1915	Waterville, Kansas
Schulz, Eric Theodore	Wilkes-Barre, Pa.
*Schulze, Helena Clara	Ransomville
Schuman, May Louise	Philadelphia, Pa.
Schwager, Harry Leon	Wilkes-Barre, Pa.
Schwartz, Leslie Charles	New York City
Scott, Edith	Englewood, N. J.
*Scott, Eugene Field	Rochester
†Scott, Gertrude Mary	Greenwood
*Scott, Maria Edna	Washington, D. C.
†Scott, (Mrs) Mary Haworth	Milwaukee, Wis.
Scott, Walter Lee	Franklin, Pa.
*Seabring, (Mrs) Lena, Pd.B. (State Nor. Coll.), 1895	Spencer
*Seeley, Mary E.	Muskegon, Mich.
Seligman, Edward Baker	Buffalo
Sellers, Elizabeth	West Chester, Pa.
Serrano, Luis	Quito, Ecuador, S. A.
Shafier, Cora May	Plymouth, Pa.
Shannon, Margaret Delphine	Wilkes-Barre, Pa.
†Shaper, Margaret Burns	Herkimer
Sharpe, Robert Boies	Greenwich
Shaw, Laura Estelle	Duquesne, Pa.
Sheffer, Mitchell	Mamaroneck
Sheldon, David Leslie	Winsted, Conn.
Shenton, Frank Russell	Pottstown, Pa.
Shepherd, Gertrude	Buffalo
Shire, Helen Mildred	New York City
Sherman, Anne Kirtland	Bridgeport, Conn.
*Short, Mary Frances, B.S. (Ohio State Univ.), 1879	Ithaca
Shortland, Helena	S. Ardmore, Pa.
*Shoultes, Myrtie Elizabeth	Endicott
Shultz, Laura Maud	Kutztown, Pa.
Shumway, Harold Lester	Ithaca
Siering, Robert LeRoy	New York City
*Simmen, Edith Marion	New York City
*Simpson, Ethel Drever	Ithaca
Simpson, Ruth, A.B. (Vassar), 1916	Brooklyn
Simon, Carlene Barbara	Auburn

*Sindlinger, Lewis	Cuba
Singer, Augusta	New York City
Siok, An Chiu	Cambridge, Mass.
Sitler, Ida, A.B. (Univ. of Mich.), 1910	Mauch Chunk, Pa.
Sitler, Margaret Ann	Washington, D. C.
Slingluff, Olive Amanda	Pittsburgh, Pa.
*Smart, Edythe Marion	Brooklyn
Smith, Clara Lyford, A.B. (Bryn Mawr), 1907, A.M. (same), 1908, B.D. (Pacific Sch. of Religion), 1915	Los Angeles, Cal.
*Smith, Della Elizabeth	Brooklyn
Smith, Dorothy	Ithaca
Smith, Douglas Alfred, A.B., 1914	California, Pa.
†Smith, Ethel Amelia	Reading, Pa.
†Smith, Florence Kathryn	Honesdale, Pa.
Smith, Gerald Sturtevant	Brooklyn
*Smith, Herbert Evans	Palmyra
Smith, Homer William, B.S. (So. Dak. Univ.), 1916	Egan, S. D.
*Smith, Maie Esther	Pittsford
Smith, Martha Towne	Ithaca
†Smith, Minnie Elizabeth	Pittsburgh, Pa.
Smith, Olive Luella	Towson, Md.
*Smith, Ruth Hildur	Seneca Castle
Snow, Alice Tuckerman, B.S., 1915	Fairport
Snow, Mary Louise, A.B., 1903	Syracuse
†Soles, Elizabeth Bell	McKeesport, Pa.
Solomon, Edward Lawrence	Beaver Falls, Pa.
Sorokin, Marcus	Rostoff on Don, Russia
†Soule, Hope Mildred	Washington, D. C.
Soule, Mary Laura	Grand Haven, Mich.
Spencer, Harold Andrew	Vineland, N. J.
*Sprague, Lillian Bishop	Brooklyn
Springer, Julia Marie	Sullivan, Ind.
Stanton, Clifford Alfred	McGraw
*Stark, William B.	White Plains
Stashak, John Frank	Nanticoke, Pa.
Stebbins, Edna	Albion
Steele, Mildred Louise	Mansfield, Pa.
Stein, Hattie	Washington, D. C.
Steiner, Amelia Katherine	New York City
Steiner, Violet Catherine	Brooklyn
Steinrock, Franklin Kern	Port Richmond
*Stengel, (Mrs) Hattie O.	Poughkeepsie
Stewart, Florence Helene	Canandaigua
Stilson, Chester Benton	Cortland
Stivers, (Mrs) Mary N.	Cold Spring Harbor
Stoeber, Sue Elizabeth	Philadelphia, Pa.
Stoughton, (Mrs) Carrie Elizabeth	Erie, Pa.
†Stover, (Mrs) Fannie May, A.B. (Western Md. Coll.), 1889, A.M. (same), 1910	Hagerstown, Md.
†Strait, Walter Louis	Spencer
†Strauss, Sara Mildred	New York City
Strickler, Helen Miles, A.B. (Wilson), 1913	Waynesboro, Pa.
Strong, Cora, A.B., 1903	Walhalla, S. C.
†Strong, Frances Miriam	Vernon Centre
Strong, Frederic W.	Cornwallville
Stroup, Effa Christain	Xenia, Ohio
Stubenrauch, Walter Herman	Hoboken
Sturgis, Anne Browning Butler, A.B., 1902, Ph.D., 1909	Ithaca
Suiter, Vaughn Douglas	Shamokin, Pa.
Sun, Ko-chi	Siangtan, China
Sun, Yu-fong	Tientsin, China
*Sun, Yu Taung Russell	Shanghai, China
Suterby, Thirza Mary	Huntington, Ind.
*Sutherland, Helen C.	New York City
*Sutherland, Margaret Wallace, A.B. (Randolph-Macon), 1915	Ithaca
Svendsen-Tune, Ingeberg	Ames, Iowa
Swaving, Frances Amelia	Pottsville, Pa.
Tallmadge, Edith Helen	Albany
Tan, Shao-Fan	Shanghai, China
Tan, Vidal Arceo, A.B. (Univ. of the Philippines), 1913	Manila, P. I.
*Tanner, (Mrs) Clara Williams	Ithaca
*Tanner, Georgia Ella	Ithaca
Tavares, John Thomas	Santiago, Santo Domingo, West Indies
Taylor, Bessie Rheton, B.S. (Columbia), 1905	Hoboken, N. J.
Taylor, Bushrod Wilber, jr.	Louisville, Ky.
*Taylor, Henry Boardman, A.B. (Greenville Coll.), 1917	Rochester
*Taylor, James Earl	Colorado Springs, Colo.
*Terrasse, Bertha Emma	Buffalo
Then, John William	Rochester
Theodore, Samuel Joseph, A.B., 1916	Aruppukotu, India

Thomas, Alice Cary	Fort Wayne, Ind.
Thomas, Marie Ella	Cleveland, Ohio
Thomson, Alice Rawlings	Yonkers
Thompson, Lillian May	South Otselic
Thompson, Richard Nelson	Fall River, Mass.
†Thurston, Una	Yonkers
*Tibbetts, Charles Edward	Buffalo
Tietjens, Henrietta D.	Philadelphia, Pa.
†Tingley, Abbie Stuart	Washington, D. C.
Tingue, George Arthur, A.B., 1915	Cobleskill
*Titus, (Mrs) Grace Kelsey	Edmeston
*Titus, Hazel Jane	Presho
*Tobey, Grace Ione, A.B. (Syracuse), 1914	Corning
*Tobin, Olivia A., B.O. (Valparaiso Univ.), 1915	Buffalo
Toles, Ethel Genevieve	Otego
Tolon, Eva Amelia Teurbe	Philadelphia, Pa.
*Tompkins, Elizabeth Heydon	Albany
*Tonkonogy, Jennie Josephine, B.A. (Hunter Coll.), 1903	Brooklyn
*Tonroff, Anna Bernard	New York City
Tooley, Howard William Daniel	Sullivan, Ind.
Touroff, Lillian Eleanor	New York City
Towne, Esther Maude	Cortland
Townsend, Prescott Winson, B.A., 1916	Middletown
*Treichler, Florence Louise, A.B. (Syracuse Univ.), 1913	Lockport
Trethaway, Charles Broad	Wilkes-Barre, Pa.
†Triester, Bertha, A.B. (Western Reserve), 1910	Cleveland, Ohio
*Tully, Alice Mary	Ithaca
*Turkle, Grace	Pittsburgh, Pa.
Tuttle, Robert J., A.B. (Allegheny), 1917	Cattaraugus
Upstill, Edgar Daye	Cleveland, Ohio
*Upton, Margaret Frances, A.B. (Smith), 1912, A.B. (Brown), 1914	Providence, R. I.
*Upright, Maud Livingston	Highland
Vail, Donald Bain	Ridgewood, N. J.
Vance, Ledereich Stuart	Louisville, Ky.
Van Buskirk, Annie Schumelzel, A.B. (Barnard), 1911, A.M. (Columbia), 1912	New York City
†Van Dyck, Miriam Hasbrouck, A.B. (Vassar), 1912	New York City
Vandevere, J. Lillian	Philadelphia, Pa.
Van Mater, James Bartholomew	Atlantic Highlands, N. J.
Vanneman, Dorothy Jewett, A.B. (Vassar), 1914	Poughkeepsie
VanVleet, Minnie Louise, A.B. (Elmira), 1912	Ithaca
Velte, Edna Angelina	Mars, Pa.
Vinton, Frances Eliza, B.A. (Boston Univ.), 1904	Bedford
Vivoni, William	San German, P. R.
Volkhart, Aquila Nebeker	Stapleton
Wagner, Laura Geneva, A.B. (Ohio Wesleyan Univ.), 1906	Delaware, O.
Waite, Virginia Frances	Huntingdon, Pa.
Waldo, Reginald	Campbell Hall
Walker, (Mrs.) Annie Robey	Herndon, Va.
Walsh, David	Binghamton
*Walter, Bernice Violet	New York City
†Walter, Edith Harvey	Rosedale, Pa.
Walters, Edna Leona	Hazleton, Pa.
Waltzinger, Frederick John	Newark, N. J.
*Wand, Madeleine Rosa	Owego
Ward, Minnie Marsden, A.B. (W. Md. Coll.), 1912	Jarrettsville, Md.
Waring, Alma Gow	Gasport
*Warner, Iva Lena, A.B., 1909	Ithaca
Waters, Margaret Mary	Poughkeepsie
Watkins, Kathleen Kenney	Troutville, Va.
†Watson, Mary	Pittston, Pa.
Watson, Rosalie Wheelock	Lunenburg, Mass.
*Waver, Alda Mabel	Buffalo
*Weaver, Harry Smith	Chadwicks
Weber, Richard	Camillus
Weber, Wilfred	New York City
Webster, Andrew Thomas	Buffalo
Webster, Louise Ward	Batavia
Webster, Myron Edward	Rutland, Pa.
Weck, Edith, A.B. (Smith), 1913	Brooklyn
Weck, Helen Dorothy	Brooklyn
Wegner, Fritz William	Frankfort
†Weigel, William Harold, jr.	Butler, Pa.
Weinberg, Pauline Florence	Newark, N. J.
*Weiss, Lillian Rosalyn, A.B. (Hunter), 1913	Brooklyn
†Weitman, Elizabeth, A.B. (Hunter), 1913	Brooklyn
*Welch, Eunice Evelyn	Douglas Manor

- Welles, Estella Nelson Hollenbeck
 Welles, Louise Ives
 Wentz, Elizabeth Heathcote
 Wessells, Emily Margaretta
 West, Florence Belle
 Westerhoff, Peter Detelius, jr.
 †Westervelt, Louise Ruth
 †Whaley, Nell, A.B. (Transylvania), 1906
 Wheat, Grace Alice, B.S. (N. Y. Univ.), 1908
 *Wheaton, Harriette
 Wheeler, Daisy
 Wheeler, Ellen Eugenia
 *Wheeler, Olive Caroline
 Whiddit, William Wall
 Whipple, Carolyn
 White, Arthur Platt, B.A. (Amherst), 1916
 White, Ida Lee
 *White, Karin Andreevna, A.B. (Vassar), 1915
 White, Ruth Arline
 *White, Wallis Mause
 Whiting, Edward Tiffany
 Whitney, Andrew Jackson, 3d
 Whittaker, Alice Edna
 Whittaker, Stella Elizabeth, Pd.B. (N. Y. State Coll. for Teachers), 1992
 Whittemore, Arthur Snow
 †Whittingham, Augustus Monroe
 Wigglesworth, Albert Gifford
 Wilcox, Catherine Amy, A.B. (Univ. of Vt.), 1914
 †Wilcox, Elizabeth Lee, A.B. (Univ. of Mich.), 1898
 †Wilder, Bertha
 *Wildman, Esther Theresa, A.B. (Stanford Univ.), 1915
 *Williams, Ernest Newell
 Williams, George Henry
 Williams, Herbert Daniel, A.B. (Univ. of Ga.), B.S. (same), A.M. (same)
 Williams, Izora Spencer
 Williams, John Gordon
 Williams, Lillian Abby
 Williams, Marguerite Carol
 *Williams, Marie Estelle
 Williams, Mary
 *Williams, Mary Frances
 Willis, Kathleen Marie, A.B., 1912
 Willmot, Ethel
 Wilson, Percy Snyder
 Wilson, Ruth, Ph.B. (Syracuse), 1909
 *Winans, Rodney Olin, B.S. (Syracuse), 1916
 Wingertszahn, Laura Louise
 Winton, Carroll Ackley
 Wisansky, Harry
 Wisdom, Ernest Mark, A.B. (Univ. of Mich.), 1913, A.M. (same), 1916
 Wise, William Franklin
 Witherow, Augusta Bispham
 Wohlsen, Helen Martha
 Wolfe, Edith May, A.B., 1903
 Wong, Harold Hung-En
 Wong, Kam Yuen
 Wood, George Dilwyn
 Wood, Lucy Thomas
 Wood, Rosamond
 *Woodelton, Esther
 Wormley, Imogene
 Wormley, Josephine Ethel
 *Wright, (Mrs) Gertrude Beryl, A.B. (Univ. of Minn.), 1910
 *Wright, Grace
 Wright, Hazel, M.E. (Normal), 1913
 Wright, Sara, M.E. (Calif., Pa. State Normal), 1913
 *Wynn, Mary
 Yao, Erh-Chang
 Yeakel, Raymond Lewis
 †Yerkes, May Ruth, A.B. (William Smith Coll.), 1915
 Yeung, Sik Chung
 Yokogawa, Tokionke
 *Youmans, Mildred Addison
 *Young, Frances King
 †Young, Mabel
 Youngs, Florence
- Elmira
 Swarthmore, Pa.
 Hanover, Pa.
 Elizabeth, N. J.
 Binghamton
 Midland Park, N. J.
 Oneonta
 Paris, Ky.
 Brooklyn
 Atlanta
 Trumansburg
 East Bloomfield
 Cortland
 Utica
 Brooklyn
 Corning
 Bonham, Texas
 Ithaca
 Scranton, Pa.
 Batavia
 Summit, N. J.
 Wilmington, Del.
 Margate, N. J.
 Woonsocket, R. I.
 New Rochelle
 Millburn, N. J.
 Wilmette, Ill.
 Morgan, Vt.
 Jackson, Mich.
 Ithaca
 Philadelphia, Pa.
 Harpursville
 Geneseo
 Acworth, Ga.
 Forth Worth, Texas
 Beacon
 Washington, D. C.
 Ithaca
 New York City
 Albany
 Ransomville
 Ithaca
 Paterson, N. J.
 Glen Ridge, N. J.
 Dryden
 Round Lake
 Dunkirk
 Ithaca
 New York City
 Monmouth, Ill.
 Washington, Ind.
 Narberth, Pa.
 Lancaster, Pa.
 Pasadena, Cal.
 Tientsin, China
 Hong Kong, China
 Ithaca
 Pittsburgh, Pa.
 Hudson
 Ithaca
 Washington, D. C.
 Washington, D. C.
 Hanover, N. H.
 Cranberry Creek
 Eighty Four, Pa.
 Elizabeth, Pa.
 Indianapolis, Ind.
 Shanghai, China
 Perkasio, Pa.
 Romulus
 Hong Kong, China
 Tokio, Japan
 Whitney Point
 Ithaca
 Erie, Pa.
 Washingtonville

STUDENTS IN SUMMER SESSION

287

*Youngs, Sarah L.
Yui, Stewart, A.M. (Princeton), 1917

Johnson City
Wuchan, Hupel, China

van Zandt, Frances Bryce
*Zinner, Tillie, B.A. (Hunter), 1907
*Zvirin, Dora
Ziegler, Louis Adolph, LL.B. (Columbia), 1880

Ithaca
Brooklyn
Larchmont
Newark, N. J.

STUDENTS IN THE WINTER COURSES IN THE COLLEGE OF AGRICULTURE, 1917-1918

Adsit, Alison Cooley	Mannsville	Harlow, (Mrs.) Lillian Grace	Auburn
Allen, Constance Fargis	Flemington, N. J.	Harlow, Stephen Bedford	Auburn
Anderson, Elmer William	Rochester	Hart, Amelia Whittlesey	Ithaca
Andrews, Maurice William	East Bloomfield	Hazard, Alvin Cecil	Norwich
Arzberger, Theodore Albert	Pleasantville	Heddon, Hobart Lester	LeRoy
Auchter, (Mrs.) Catherine Beaumont	Morgantown, W. Va.	Hemingway, William Riley	Freeville
Aude, Carl E.	Herkimer	Heredia, Antonio	Merida, Yucatan, Mexico
Baldrige, (Mrs.) Ruby Thayer	Kendaia	Hoecker, Richmond Bernard	Leonia, N. J.
Bartlett, Charles William	Norwood	Holmes, Lloyd Leslie	Constableville
Bass, Glenn McKinley	Gloversville	Holmes, Russell Ditmars	Newfield
Bassett, Robert Handford	Coopers Plains	Horton, Edmund Carlton	Saranac Lake
Beach, Marvin	Liberty	Hotchkiss, Julia Witner	North Collins
Beaupre, Arthur William	Liverpool	Hotchkiss, Walter Gowans	North Collins
Beecher, Herbert Lewis	Livonia	Hubbard, Richard Wm.	Glastonbury, Conn.
Been, Ralph Theodore	Glens Falls	Hudson, Leon Durwood	Erieville
Blakesley, Floyd Benona	Gilboa	Huiswond, Otto Edward	New York City
Bodle, Sabella Fisher	Trumansburg	Huntley, Lester Vincent	Wyoming, Del.
Bonham, Karl N.	Franklin, Pa.	Jackson, James Arthur, Jr.	Dansville
Bowman, John Martin	Clinton Corners	Kautz, Henry	New York City
Brayer, Franklin Charles	Rochester	Kendall, Roderick Cobb	New York City
Brooks, John	Ithaca	Kirshman, Morris	Mountaindale
Brown, Samuel	Brooklyn	Klinger, Charlotte	Forestburg
Brunie, Leonard John	New York City	Klug, Ella Aurelia	Glendale
Buffum, David Bradley	New York City	Knapp, Clifford Jay	Dansville
Buffum, (Mrs.) Marjorie North	New York City	Lacy, Leo Albert	Stanley
Burrows, Wesley Ward	Hermon	Lacy, Mrs. Rachel Elizabeth	Stanley
Carter, William Edmond	Mt. Kisco	Lawless, Eleanor Margaret	Rochester
Casey, Daniel Joseph	Glens Falls	Leal, Enrique	Merida, Mexico
Casterline, William Earl	Belmont	Lehtonen, Ola Mathilda	Newfield
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Chadeayne, Mary Waring	Cornwall	Littlejohn, (Mrs.) Dorothy Williams	Flushing
Chapman, Charles Henry	Ithaca	Littlejohn, Hugh Warwick	Flushing
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Cole, William Alfred	Painesville, O.	Loucks, Nancy Irene	Scottsdale, Pa.
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Coles, (Mrs.) Anna M.	Moorestown, N. J.	McCarthy, Gerald Peter	New York City
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DeBerthonis, Julius	New York City	Martin, Dorr Truman	Rathbone
Duhring, Lucy Bryant	Philadelphia, Pa.	Messite, Emanuel Mandel	Ellenville
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Eberhardt, John Frederick	Cassville	Miller, Lynden James	Binghamton
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Etzel, Alfred C.	Highland Mills	Morse, (Mrs.) Epsie Brandt, A.B., A.M.	Ithaca
Exton, Albert A.	Groton	Mueser, Frederick Alfred, A.B., A.M.	New York City
Ferry, Levi Clair	Almond	Munson, Donald F.	Brooklyn
Fisher, Helen	New York City	Nicewonger, George Beers	Elmira
Fox, Cecil Aubrey	Savona	Nicholson, Raymond Clarence	Fort Ann
Gardner, Elmer Lee	Utica	Oakes, Leonard Bertrand	Medina
Glatzner, Louis Otto	New York City	Odell, Winston Harold	Findley Lake
Goldsmith, Isidor	New York City	Owens, Emrys	Erieville
Graves, Charles Chauncey	Rexville	Palmer, Harry Devillo	South Otselic
Griffin, Edward Bryan	Hunter	Parker, William Hatch, jr.	Ithaca
Halbwachs, Louis Richard	Brooklyn	Parr, Lottie Lorinda	Ithaca
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Hallenbeck, Frederick	Hudson	Porter, (Mrs.) Margaret Elizabeth	Napanoch
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Hargrave, Erwin Richard	Boonville		

Presbrey, Alice	New York City	Stow, Theodore Elbert	Horseheads
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Rowley, Burt Eugene	Westfield	Thompson, Ralph Oscar	Amsterdam
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Rumsey, Howard Glen	Fulton	Todd, Judson Nelson	Ithaca
		Trevett, Ruth Eliza	Boston
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Salmonsens, Carl	Onondaga Valley	Tuttle, Marion Alfonso	Ithaca
Schlossberg, Michael	Mountaindale		
Scudder, Bruce Abram	Fleischmanns	Vogt, Leonard Malcolm	Avon
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Shook, Clinton John	Hudson	Wakely, Milton Thomas	Bolton Landing
Shutts, Bert James	Hannibal	Walenta, Edmund Joseph, 3d.	Schuylerville
Skiff, Paul Edward	Schaghticoke	Warner, Allen	North Randall, O.
Sliker, Hines S.	Livonia	Warren, Maxwell W.	Brighton
Slocum, Loyd Merrell	Warsaw	Warren, Oscar Amasa	Naples
Smalbach, Harry Mayer	New York City	Weigel, Elmer Ross	Buffalo
Somers, (Mrs.) Gertrude Hough	Lowville	West, Henry Herbert	Allentown, N. J.
Somers, Lloyd Dean	Baldwinsville	White, Elsie Louisa	Yorktown
Spenser, Laura Zoe	Linden, Mich.	Wickes, Philip Bardwell	Rochester
Spiegelman, Morris	Spring Glen	Wickham, (Mrs.) Cora Billard	Cutchogue
Stanford, Everett Raymond	St. James	Wilbur, Harold Baker	Greenwich
Stark, Frank B.	Philmont	Will, Arthur John	Roscoe
Stauffer, Elton Lewis	Apple Creek, Ohio	Wilson, Leon Curtis	Lockport
Stevens, Richard Bushnell	Hawthorne	Wingate, Clair Wilson	Livonia
Stewart, Neil Johnston	York	Woodard, Walter Robert	Great Bend
Stollenwerck, Maebelle	Birmingham, Ala.		
Stone, William Leete, jr.	New Lenox, Mass.	Yunker, Emilie, S.B., S.M.	Louisville, Ky.

INDEX OF NAMES

- Ackerman, F. L., 138.
 Adam, J. D., 38.
 Adams, B., 11, 118, 131.
 Adams, J. Q., jr., 11, 65, 78, 79, 178.
 Adams, J. W., 112.
 Adamson, W. A., 87, 101.
 Adler, F., 37.
 Albee, E., 11, 64, 79, 80.
 Albert, C. D., 11, 151, 152, 159.
 Alexander, C. P., 11.
 Alexander, W. P., 32, 201.
 Allen, A. A., 11, 65, 90, 119, 129, 130, 201, 204.
 Allen, C. E., 101.
 Allen, C. L., 32, 122, 126.
 Alvarez, A., 37.
 Anderson, E. G., 32, 122.
 Anderson, R. P., 11, 65, 87, 88.
 Andrae, W. C., 11, 159.
 Andrews, A. L., 11, 66, 75, 76.
 Andrews, E. P., 11, 65, 73, 74, 177.
 Andrews, F. E., 135, 201, 204.
 Arctowska, J., 38.
 Armbruster, F. W., 11, 152, 159.
 Armstrong, E. M., 32, 100.
 Asmus, H., 11, 111, 116, 126.
 Atkinson, G. F., 11, 63, 89, 90.
 Atkinson, H. V., 11, 101, 106.
 Atkinson, R. V., 11, 67, 92, 190, 193.
 Atwood, G. E., 32.
 Atwood, L. L., 11, 67.
 Austen, W. H., 11, 83, 162, 187.
 Ayres, W. E., 11, 120, 162.
 Babcock, H. E., 11, 119.
 Babcock, N. C., 32, 68, 87.
 Baerg, W. J., 32, 123.
 Bailey, A., 85.
 Bailey, E. J., 11, 65, 77, 78, 190, 194.
 Bailey, H. C., 11, 98, 108.
 Bailey, R. E., 38.
 Baker, T. A., 201, 202.
 Baker, W. C., 11, 118, 128.
 Balderrey, F. C., 37, 174.
 Baldwin, D. L., 190, 194.
 Ballard, W. C., jr., 11, 152, 161, 190, 196.
 Bancroft, W. D., 11, 63, 88, 178.
 Banks, D. H., 32, 152, 160.
 Bannister, L. W., 93, 95.
 Banta, L., 32, 122.
 Barbour, E. H., 37.
 Barker, E. E., 12, 119, 134, 201, 204.
 Barnard, W. N., 12, 151, 160.
 Barnes, F. A., 12, 145, 149, 150.
 Barr, D. P., 32, 98, 107.
 Barringer, B. S., 12, 98, 108, 109.
 Barron, J. H., 12, 119.
 Barrows, D. N., 12, 98, 109.
 Barrus, M. F., 12, 118, 134.
 Bartholomew, L., 190, 196.
 Bartholomew, R., 190.
 Barton, F. A., 12, 36, 65.
 Bason, G. F., 12, 152, 161.
 Baxter, H. E., 12, 138, 143, 144.
 Beal, A. C., 12, 118, 131.
 Bean, W. C., 92.
 Bechtel, A. R., 12, 121, 126, 127.
 Becker, C., 12, 64, 81, 82.
 Bedell, F., 12, 64, 86.
 Beekman, F., 32, 98, 108.
 Behr, L., 32, 153.
 Behrends, F., 12.
 Beitz, W. E., 12.
 Benedict, S. R., 12, 97, 106, 108.
 Benjamin, E. W., 12, 119, 135, 201, 204.
 Bennett, C. E., 12, 36, 63, 74, 178.
 Bennett, H. B., 12, 122, 136.
 Benson, J. P., 12, 122, 127.
 Bentley, J., jr., 12, 119, 131, 132.
 Bergstein, S., 32, 68.
 Bernheim, G. B., 32, 100.
 Berston, J. L., 35.
 Berry, C. H., 12, 151, 160.
 Besemer, A. M., 12, 120, 127, 128.
 Betten, C., 12, 36, 118, 129, 201.
 Bidwell, C. C., 12, 66, 85, 86, 190, 197.
 Bier, R., 12.
 Billings, W. A., 32, 111.
 Birch, R. R., 12, 111.
 Birdseye, M., 12, 119.
 Bishop, H. G., 33, 67, 80, 190, 193.
 Bitner, R. E., 12, 67, 85.
 Bitting, W. C., 38.
 Bizzell, J. A., 13, 118, 134, 135.
 Black, H., 37.
 Blackmore, B., 13, 120, 132, 133, 201, 203.
 Blackwell, C. P., 33, 122.
 Blaker, E., 13, 36, 65, 85, 86.
 Bliven, S. W., 190.
 Blodgett, F. M., 13, 119, 134.
 Blodgett, W. K., 13, 120.
 Blood, C. H., 8, 9, 162, 176.
 Bock, J. C., 13, 98, 106.
 Bodansky, A., 13, 67, 90, 101, 109.
 Boesche, A. W., 13, 36, 64, 75, 76, 190, 195.
 Bogert, G. G., 13, 93, 94, 95.
 Bohannon, C. D., 33, 123.
 Bohrer, J. V., 33, 100.
 Boies, C. D., 33, 68.
 Bois, J., 37.
 Bolling, R. W., 33, 101, 108.
 Boring, E. G., 13, 66, 80, 190, 193.
 Bostwick, C. D., 9, 37.

- Botsford, H. E., 33, 135, 201, 204.
 Boucher, H. N., 33.
 Boutelle, C. A., 13, 119.
 Bown, R. A., 86.
 Boyle, J. E., jr., 13, 118.
 Boys, J. A., 13, 121, 132.
 Bradford, E. F., 13, 121, 133.
 Bradford, L. J., 13, 152, 159.
 Bradley, C. L., 180.
 Bradley, J. C., 13, 65, 119, 129, 130.
 Bradley, J. F., 13, 66, 77.
 Brandes, G. H., 33, 68, 87.
 Brannon, J. M., 13, 121, 127.
 Brauner, O. M., 13, 138, 143, 144.
 Bray, M. W., 88.
 Bregger, T., 33, 122, 134.
 Bremer, H. E., 33, 122, 128.
 Bretz, J. P., 13, 36, 64, 81, 82, 190, 195.
 Brewer, S. L., 13, 121, 133, 201, 203.
 Bridgman, J. A., 88.
 Briggs, T. R., 13, 65, 87.
 Bristol, G. P., 13, 36, 63, 73, 81, 177, 178, 190, 195.
 Bromley, J. H., 13.
 Brooks, C. A., 33, 152, 159.
 Broughton, L. N., 13, 36, 65, 77, 78, 190, 194.
 Brown, H. W., 13, 152, 161.
 Brown, S., 108.
 Brown, T. B., 190, 197.
 Browne, A. W., 13, 36, 64, 87, 88, 111, 190, 198.
 Brundage, W. H., 13, 98, 107.
 Bryant, R. C., 13, 118.
 Buchan, H. P., 135, 201, 204.
 Buck, W. B., 159, 190, 193, 199.
 Buckley, K., 14, 98, 108.
 Buckman, H. O., 13, 118, 134, 135, 201, 204.
 Bundy, M. W., 14, 66, 77.
 Burdick, C. K., 14, 93, 94, 95.
 Burlage, S. R., 33, 67, 101.
 Burnett, S. H., 14.
 Burnham, L. P., 14, 138, 143, 144.
 Burr, E. T., 33.
 Burr, G. L., 14, 36, 63, 81, 82, 162.
 Burritt, M. C., 14, 118, 136.
 Burrows, E. N., 14, 145, 149, 150, 190, 200.
 Bush, H. S., 33, 152, 159.
 Bussel, F. P., 14, 121.
 Bussey, R. E., 33, 152.
 Buttery, C. J., 14, 66, 76, 190, 194.
 Button, F. C., 33, 123.
 Cadman, S. P., 38.
 Campbell, R. A., 14, 67, 82, 83.
 Canfield, E. B., 14, 36, 67, 92.
 Canon, H., 14, 121, 201, 203.
 Carnegie, A., 8.
 Carnes, M., 90.
 Carnoy, A., 37.
 Carpenter, C. M., 14, 111.
 Carpenter, J. M., 194, 195.
 Carpenter, R. C., 14, 151.
 Carrick, D. B., 134, 135, 201, 204.
 Carter, C. F., 38.
 Carver, W. B., 14, 65, 84, 190, 197.
 Cassassa, C. S. B., 33, 100, 108.
 Cavanaugh, G. W., 14, 64, 88, 89, 117, 201, 203.
 Cecil, R. L., 33, 98, 107.
 Chamberlain, G. R., 14, 138, 143.
 Chamberlain, R. F., 14, 152, 161.
 Chambers, R., 14, 98, 105.
 Chamot, E. M., 14, 64, 88.
 Chandler, B. A., 14, 120, 132.
 Chandler, W. H., 14, 118, 135.
 Chandler, W. L., 14, 121, 129.
 Chapman, W. F., 33, 67.
 Chappell, J. T., 33, 68.
 Chedyleur, F. D., 190, 194.
 Cheesebrough, M. A., 33, 68.
 Cheney, L. O., 14, 99.
 Childs, G. H., 33, 68.
 Christensen, J., 33, 68.
 Christian, C. M., 33, 35, 68.
 Chupp, C., 14, 122.
 Church, I. P., 14, 145.
 Cilley, A. H., 15, 99, 109.
 Claassen, P. W., 15, 121, 130.
 Clark, C. P., 15, 121.
 Clark, F. C., 115.
 Clark, H. H., 15.
 Clark, L. H., 33, 68, 87.
 Clark, R. E., 15, 152, 160.
 Coca, A. F., 15, 98, 108.
 Cogswell, H. E., 190, 196, 197.
 Cohn, P., 33.
 Cole, H. I., 88.
 Cole, L. G., 15, 98, 109.
 Coley, W. B., 15, 98, 108.
 Collin, H. A., 33, 152.
 Collingwood, G. H., 15, 119, 131, 132.
 Collucci, F., 15, 66.
 Colony, M. W., 33, 68.
 Comstock, A. B., 15, 119, 129, 130, 201, 203.
 Comstock, J. H., 9, 15, 63, 117.
 Conklin, E. E., 33, 122.
 Conner, L. A., 9, 15, 97, 107.
 Connolly, P. T. I., 33, 111.
 Conwell, W. L., 15, 145, 149, 150.
 Cook, G. K., 33, 101, 111.
 Cooke, W. P., 8.
 Cooper, L., 15, 64, 78, 190, 194.
 Cornell, C. E., 8, 9, 37.
 Cornell, W. R., 15, 152, 159, 199.
 Cornwell, R. T. K., 33, 68.
 Corrington, J. D., 33, 67.
 Coryell, J., 33.
 Cota, A. R., 161.
 Cowan, R. W. E., 33, 122, 127, 128.
 Craig, C. F., 15, 66, 84, 85, 190, 197.
 Craig, W. T., 15, 120.
 Cramer, M., 190, 193.

- Crandall, C., 15, 145, 148, 149, 150.
 Crane, T. F., 15, 63.
 Creighton, J. E., 15, 63, 79, 80, 111, 178.
 Crofts, C. D., 179, 180.
 Crosby, C. R., 15, 118.
 Crosby, D. J., 15, 118, 130.
 Cross, L. J., 15, 89, 118.
 Culbertson, A. L., 87.
 Cunningham, C. D., 190, 196.
 Curtis, C. E., 37.
 Curtis, O. F., 15, 120, 127.
 Curtis, R. W., 15, 118, 133, 201, 203.
 Cushman, B. S., 15, 152.

 Dallenbach, K. M., 16, 66, 80, 190, 193.
 Dana, C. L., 16, 97, 109.
 Daniels, L. H., 162.
 Dann, A. B., 16, 120, 135.
 Dann, H. E., 16, 64, 83, 190, 193.
 Dann, H. H., 87.
 Davenport, H. J., 16, 64, 82, 83, 94, 190, 196.
 Davidsen, H. C., 16, 36, 65, 75, 76, 190, 195.
 Davis, A. C., 160.
 Davis, E. G., 16, 118, 133.
 Davis, H. K., 16, 66, 91, 101, 110.
 Deans, W., jr., 161.
 DeGarmo, C., 16, 63.
 Demaree, C. C., 33, 122, 126.
 DeMott, H. V., 33, 122, 134, 135.
 Dennis, F. S., 16, 97.
 Dennis, L. M., 16, 63, 88.
 Diederichs, H., 16, 152, 160, 161, 176.
 Diederichs, H. N., 16, 36, 152, 159.
 Diefenbach, W. T., 33, 67, 88.
 di Grassi, G., 162.
 Dimmick, F. L., 33, 67, 80.
 Dix, J. A., 8, 9.
 Dods, J. P., 179.
 Dorsey, E., 33.
 Douglas, G. E., 16, 122.
 Douglass, W. A., 101.
 Dresbach, M., 16, 65, 90, 101, 110.
 Drummond, A. M., 16, 66, 79, 190, 194.
 Duane, W., 108.
 Dubois, E. F., 16, 98, 107.
 DuCasse, F. K., 33, 68.
 Dudley, G. S., 33, 100.
 Duffies, E. L., 35.
 Dulles, A. M., 38.
 Dunlap, V. C., 33, 67, 89.
 Durham, C. L., 16, 64, 74, 190, 195.
 Dusham, E. H., 16, 121, 128.
 Dutton, G. C., 16, 121.
 Dye, J. A., 33, 67, 101.
 Dynes, O. W., 16, 120, 130.

 Eames, A. J., 16, 119, 126, 127.
 Eames, R. B., 33, 123.
 Eaton, C. A., 38.
 Edgar, J. C., 16, 97, 108, 109.
 Edgerton, H. W., 16, 93, 94, 95.

 Edwards, J. H., 9.
 Eggleston, C., 16, 98, 106.
 Einhorn, M., 33, 100, 107.
 Eldridge, W. C., 35.
 Eliot, S. A., 38.
 Ellenwood, F. O., 16, 151, 160.
 Elliott, G. T., 16, 97, 109.
 Elliott, R. D., 16, 152.
 Elmer, H. C., 16, 64, 74.
 Elser, W. J., 17, 97, 108.
 Elston, E. D., 17, 66, 91, 190, 195.
 Embody, G. C., 17, 119, 129, 130, 201, 202, 203.
 Emerson, R. A., 17, 117, 134.
 Emmons, R. L., 33, 68.
 Engelder, C. J., 88.
 Engeln, O. D., von, 17, 65, 91, 192, 199.
 English, D., 17, 36, 65, 82, 83, 190, 196.
 Erickson, L., 17, 122, 126.
 Erskine, A. M., 17, 67, 87, 190, 198.
 Evans, D. A., 33, 152, 159.
 Everest, G., 190, 193.
 Everett, G. A., 17, 118, 130.
 Everingham, S., 33, 100.
 Ewing, J., 17, 97, 108.

 Farnham, M. E., 17, 121.
 Farr, C. E., 98.
 Farrar, L. K. P., 17, 98, 109.
 Faull, J. H., 201, 202.
 Faust, A. B., 17, 64, 75, 76.
 Ferguson, J. S., 17, 97.
 Ferris, E. E., 151.
 Fields, F. V. D., 33, 68.
 Finley, J. H., 8.
 Fippin, E. O., 17, 117, 137.
 Fish, P. A., 9, 17, 111, 115.
 Fisher, M. J., 33, 68.
 Fisher, W. I., 17, 121.
 Fisk, W. W., 17, 119, 127, 128.
 Fiske, C., 38.
 Fitch, J. A., 38.
 Fitzpatrick, H. M., 17, 119, 134.
 Flagg, K. P., 90.
 Flemming, E. G., 79, 190, 194.
 Florence, L., 33, 122, 128.
 Foglesong, J. E., 17, 67, 87, 190.
 Foote, E. T., 180.
 Ford, G. B., 138.
 Foster, W. S., 17, 65, 80, 81, 190, 193.
 Fowler, M., 162.
 Fox, K. C., 33, 122, 135.
 Fraser, A. C., 17, 120, 134.
 Friderici, E. D., 33, 68.
 Frink, H. W., 17, 98, 108.
 Frost, J. N., 17, 111, 115.
 Frost, S. W., 201.
 Frost, W. S., 33, 89, 122.
 Frothingham, P. R., 38.
 Furchgott, H., 33, 67, 92.
 Furlong, C. W., 37.

- Gaba, M. G., 17, 66, 84.
 Gaertner, H. A., 33, 152.
 Gage, S. H., 17, 63, 100, 111.
 Gage, V. R., 17, 151, 160.
 Gamble, D. L., 17, 67, 90.
 Garner, E. F., 18, 152, 159.
 Garrett, C. L., 18, 121, 128.
 Garrett, S. S., 18, 151, 159.
 Garver, P. L., 33, 152.
 Gates, J. G., 160.
 Gaver, W. W., 100.
 Gavett, W. J., 160.
 Gayman, H. E., 18, 122.
 Gelas, J. M., 190, 193.
 Genung, E., 201.
 George, S. G., 18, 36, 145, 148.
 Georgia, A. E., 34, 122.
 Georgia, F. R., 18, 66, 88, 190, 198.
 Gere, J. B., 18, 99, 108.
 Germann, F. E. E., 18, 66, 85, 86.
 Gershoy, A. M., 34.
 Gerster, J. C. A., 18, 99, 108.
 Gibbs, R. C., 18, 36, 65, 85, 112, 190, 197.
 Gibson, A. W., 121, 131.
 Gibson, C. L., 18, 97, 108.
 Gilbert, A. H., 18, 66, 77, 78.
 Gilchrist, R., 34, 67, 190, 198.
 Gilkey, C. W., 38.
 Gilkey, R., 18, 119, 130.
 Gill, A. C., 18, 64, 91, 92.
 Gillespie, D. C., 18, 65, 84, 191, 197.
 Gillett, R. L., 18, 121.
 Gilman, R. E., 66, 84.
 Gleason, J., 18, 201, 203.
 Gleason, K., 180.
 Globus, J. H., 18, 99, 105.
 Goethals, G. W., 37.
 Goldberg, S. A., 18, 111, 116.
 Goodridge, M., 18, 98, 107.
 Gozdawa-Turczynowicz, L. de., 38.
 Grantham, G. E., 18, 67, 85.
 Gray, A., 18, 151, 161.
 Green, D., 34, 152.
 Green, R. W., 122.
 Greenberg, H. W., 36.
 Greenland, C. W., 18, 66, 91, 143.
 Greenwood, W. B., 36.
 Gregory, A., 162.
 Gregory, C. T., 18, 119, 134.
 Grey, J., 201.
 Griffin, F. A., 34, 68.
 Griffin, F. L., 18, 118.
 Griffis, W. E., 38.
 Griffith, J. E., 191, 193.
 Gudernatsch, J. F., 18, 98, 105.
 Guerard, A. L., 37.
 Guerlac, O. G., 18, 65, 76.
 Guise, C. H., 18, 121, 131, 132.
 Guthrie, E. S., 18, 118, 127, 128.
 Gutsell, H. S., 18, 138, 143.
 Gutsell, R. S., 101.
 Haber, V. R., 34, 122.
 Hagan, W. A., 19, 111.
 Haines, G., 34, 123.
 Ham, C. W., 19, 36, 151, 159, 193.
 Ham, E. S., 19, 120, 126.
 Hamilton, C. C., 34, 68, 122, 129.
 Hamilton, G. L., 19, 64, 76, 77, 162.
 Hammond, W. A., 19, 64, 73, 79, 80.
 Hancy, A. J., 19, 121, 126, 127.
 Hardenburg, E. V., 19, 120, 130.
 Harper, M. W., 19, 118, 126.
 Harrington, C. E., 19, 152, 159.
 Harrington, J. J., 37, 174.
 Harris, G. D., 19, 64, 92.
 Harris, G. W., 19.
 Harris, J. P., 180.
 Harshberger, J. W., 112.
 Hartwell, J. A., 19, 97, 108.
 Hartzell, J. C., 38.
 Haskell, E. E., 19, 145, 148.
 Hastings, T. W., 19, 97, 107.
 Hatcher, R. A., 19, 97, 106, 109.
 Hausman, L. A., 201, 203.
 Hawkins, L. S., 120.
 Hayden, C. E., 19, 111, 115.
 Hayes, J. W., 34, 68.
 Hayes, L. D., 19, 151, 159.
 Haynes, I. S., 19, 97, 108.
 Hazard, B. E., 19, 119, 132, 133.
 Hazen, L. E., 19, 120, 136.
 Head, W. F., 152.
 Head, W. L., 34, 152, 159.
 Heinicke, A. J., 19, 120, 134, 135, 201, 204.
 Hendrick, E., 37.
 Henry, G., 191, 193.
 Henry, M. F., 19, 121, 132, 201.
 Hermannsson, H., 19, 67, 76, 162.
 Herrick, G. W., 19, 64, 118, 128, 129, 130.
 Herrick, J. H., 34.
 Hertig, J. M., 34.
 Hesler, L. R., 19, 119, 134.
 Heuser, G. F., 19, 121, 135.
 Hewett, W. T., 19, 63.
 Hill, L., 201, 204.
 Hill, M. E., 34, 122.
 Hill, R. H., 20, 66, 90, 101, 110.
 Hillhouse, E., 34, 122, 132, 133.
 Hilmer, H. J., 34, 68.
 Hiscock, F. H., 8.
 Hitchcock, H. A., 20.
 Hitzrot, J. M., 20, 98, 108.
 Hoag, A. E., 20, 99, 108.
 Hoel, A. B., 67.
 Hoerrner, W. H., 191, 196.
 Hoguet, J. P., 20, 99, 108.
 Hoisington, L. B., 20, 67, 80.
 Holladay, E. W., 20, 99, 109.
 Holland, A. L., 20, 99, 107.

- Hollingworth, W. G., 112.
 Hollis, A., 201.
 Holmes, J. H., 38.
 Holmes, S. V. V., 38.
 Hood, H. P., 34.
 Hook, W. H., 160.
 Hooper, L., 34, 152, 159, 191, 193, 199.
 Hopkins, E. F., 20, 121.
 Hopkins, G. S., 20, 111, 115.
 Hopper, E. B., 20, 111.
 Hopper, H. A., 20, 118, 126.
 Hosmer, R. S., 20, 117, 131, 132.
 Hotchkiss, H. J., 20, 152, 159.
 Hough, C. C., 159.
 Hough, L. H., 38.
 Howard, C., 184.
 Howard, L. O., 180.
 Howe, B. N., 34, 152, 159.
 Hoy, D. F., 20, 37, 177, 190.
 Hubert, M. J., 34.
 Hudson, C. J., 112.
 Huestis, T. B., 36.
 Huff, S. B., 20, 121.
 Hughes, E. H., 38.
 Hughes, M. C., 20, 152, 161.
 Hull, C. H., 20, 36, 63, 81, 82.
 Hunn, A. E., 20, 120, 132.
 Hunn, C. E., 34, 122, 133.
 Hunt, H. A., 191, 196.
 Huntoon, F. M., 20, 98, 108.
 Hurd, L. M., 20, 121.
 Hurwitz, W. A., 20, 65, 84, 191, 197.
 Hutchinson, J. I., 20, 64.
 Hutchison, C. B., 20, 118, 134.
 Hutton, W. H. H., 179.
 Hyatt, J. M., 34, 68.
 Ickelheimer, H. R., 8, 9.
 Ingersoll, E. S., 162.
 Irish, S. R., 20.
 Irish, W. M., 152.
 Jackson, H. C., 20, 121, 127, 128.
 Jackson, H. S., 201, 202.
 Jackson, H. W., 20, 99, 107.
 Jackson, S. D., 20, 67, 87, 191, 198.
 Jacoby, H. S., 20, 145, 149, 150, 162.
 Jaffin, J. M., 87.
 Jagger, I. C., 20, 120.
 Janeway, H. H., 108.
 Jeck, H. S., 20, 99, 109.
 Jenison, N., 21, 99, 107.
 Jenness, J. R., 21, 66, 85.
 Jensen, W. C., 34, 123.
 Johannsen, O. A., 21, 36, 64, 118, 128, 129, 201, 202.
 Johnson, G. A., 101.
 Johnson, W. L., 34, 152.
 Johnston, J. C., 21, 98, 109.
 Johnstone, A. E., 191, 196, 197.
 Jonas, J. B. E., 191, 195.
 Jones, H. L., 21, 65, 73.
 Jones, R. N., 201.
 Joyce, J. B., 21, 152.
 Karapetoff, V., 21, 151, 161.
 Kelley, F. R., 21, 122.
 Kellogg, V. L., 37.
 Kelly, W. H., 112.
 Kenerson, A. S., 21, 121, 137.
 Keniston, R. H., 21, 36, 67, 77.
 Kennard, E. H., 21, 66, 85, 86.
 Kennedy, C. H., 21, 121, 129.
 Kennedy, F., 98, 108.
 Kennedy, J. A., 34, 68.
 Kennedy, R. F., 21.
 Kennell, L. S., 21, 67.
 Kent, G. E., 176, 177.
 Kent, O. B., 21, 120, 135, 201, 204.
 Kenyon, J. H., 21, 99, 108.
 Kerr, A. T., 21, 36, 63, 91, 100, 110.
 Keyes, E. L., jr., 21, 97, 109.
 Kimball, D. S., 9, 21, 36, 82, 151, 159, 161, 191, 193, 199.
 King, A. C., 12, 118.
 King, E. R., 12, 119, 128.
 Kingery, H. M., 21, 66, 91, 100, 110, 112.
 Kingsbury, B. F., 21, 64, 91, 100, 110, 111.
 Kinney, H. D., 34, 67.
 Kirkpatrick, E. L., 21, 120, 137.
 Klenze, C. von., 37.
 Knapp, G. A., 112.
 Knight, H. H., 21, 121.
 Knowlton, H. E., 21, 121, 127.
 Knox, C. C., 160.
 Knudson, L., 21, 118, 127.
 Koch, A., 201, 203.
 Koenig, F. F., 21, 111, 116.
 Koller, J. P., 34, 67, 87, 191, 198.
 Koller, L. R., 34, 67, 85.
 Komp, H. W., 34.
 Kopman, C. R., 201.
 Krey, C. E., 36.
 Kroeger, E. R., 191, 197.
 Krum, O. C., 34.
 Krum, W. G., 22, 121, 135.
 Kruse, P. J., 22, 120, 136.
 Kuhnemann, E., 37.
 Lacy, L. V., 22, 138, 143.
 Lambert, A., 22, 97, 107.
 Lamphier, L. L., 34, 68.
 Land, G. A., 191, 195.
 Lanson, G., 37.
 Larkin, L. P., 34, 67, 191.
 Latta, J. S., 34, 68, 101, 112.
 Laughlin, J. L., 37.
 Lauman, G. N., 22, 64, 117, 135, 136, 201, 204.
 Law, J., 22, 111.
 Lawrence, L. A., 22, 145, 148.
 Le Boeuf, R. J., jr., 36.
 Lee, B. J., 22, 98, 108.

- Lee, M. A., 22, 151, 159.
 Leister, C. W., 34, 122, 130, 201.
 Leland, E. W., 122.
 Leland, L., 162.
 Leland, O. M., 22, 64, 85, 145, 148.
 Leonard, M. D., 22, 121.
 L'Esperance, E. S., 22, 98, 108.
 Levine, S., 34, 100.
 Levy, T., 34, 87, 100.
 Liddle, R. A., 34, 68.
 Lilienthal, H., 22, 98, 108.
 Lippincott, W. L., 34, 68.
 Livermore, K. C., 22, 118, 130, 131.
 Lott, E. H., 22, 121.
 Loudenslager, C. B., 34, 122, 130.
 Louder, E. A., 34, 67, 123.
 Love, H. H., 22, 117, 134.
 Low, L. J., 191, 196.
 Lumsden, D., 22, 119, 131, 201, 203.
 Lundell, G. E. F., 36, 191, 198.
 Lunt, W. E., 191, 195, 196.
 Lusk, G., 22, 97, 106.
 Lusk, W. F., 22, 136, 178, 201, 204.
 Lyon, T. L., 9, 22, 117, 137.

 McAnlis, C. R., 22, 145, 149.
 McAuliffe, G. B., 22, 99, 109.
 McBerty, F. H., 34, 68.
 McCallum, C. R., 36.
 McCaskill, O. L., 22, 93, 94, 95.
 McConnell, F. J., 38.
 McCoy, D. C., 87, 191, 198.
 McCurdy, J. C., 22, 119, 136.
 MacCurdy, J. T., 22, 100, 109.
 McDaniels, L. H., 201, 202.
 McDermott, G. R., 22, 152, 159.
 McDowell, W. F., 38.
 McInerney, T. J., 23, 120, 127, 128.
 McKelvey, J. V., 23, 66, 84.
 McKinney, A. E., 23, 87, 122.
 McLeod, M. J., 38.
 McMahan, J., 23, 63, 84.
 Macmillan, K. D., 38.
 McNeal, N. H., 23, 122.
 Macomber, H. I., 34, 123.
 Macomber, W., 93, 95.
 Macon, W. W., 179, 180.
 McVetty, P. G., 23, 152, 160, 161.
 McWhorter, W. B., 37, 174.
 Mahood, S. A., 101, 112, 191, 198.
 Mallory, W. G., 23, 66, 85.
 Mann, A. R., 9, 23, 117, 201.
 Marks, M. M., 138.
 Marquis, S. S., 38.
 Martin, C. A., 23, 36, 138, 143, 144.
 Martin, T. L., 34, 122.
 Martonne, E. de., 37.
 Mason, H. D., 9.
 Mason, J. F., 23, 36, 64, 76, 191, 194.
 Massey, L. M., 23, 120, 134.

 Matheson, R., 23, 119, 128, 129.
 Mattern, D. E., 191, 196.
 Matthews, F., 89.
 Matthews, R., 23, 151, 160.
 Matzke, E. H., 23, 37, 67, 92, 174, 191, 193.
 Maver, W. W., 34.
 Mayer, W. L., 34.
 Maynard, L. A., 23, 119, 126.
 Meade, D., 23, 120, 126, 201, 202.
 Meara, F. S., 23, 97, 107.
 Meeks, E. V., 23, 138, 143.
 Mekell, A. G., 34, 68.
 Meldrum, A. B., 38.
 Merrill, W. P., 38.
 Merritt, E. G., 23, 63, 85, 112.
 Mertz, P., 34, 68.
 Metcalf, F. P., 201, 202.
 Metcalf, W., 180.
 Metzger, R. I., 34, 123.
 Meyler, R. G., 161.
 Michenor, J. H., 87.
 Middleton, G. K., 34, 123.
 Midjo, C., 23, 138, 143.
 Milks, H. J., 23, 111, 115.
 Miller, F. H., 9.
 Milligan, W. G., 35.
 Mills, A. P., 23, 145, 148.
 Miltimore, E., 23, 99, 107.
 Minns, L. A., 23, 120, 131.
 Misner, E. G., 23, 120.
 Moler, G. S., 23, 63.
 Monnett, V. E., 191, 199.
 Monroe, B. S., 24, 36, 65, 77, 78, 191, 194.
 Montgomery, E. G., 24, 117, 130.
 Montillon, E. D., 24, 120, 133.
 Moody, H. T., 9.
 Moon, H. H., 34, 35.
 Moon, M. P., 34, 123.
 Moore, A. A., 24.
 Moore, I. L., 85.
 Moore, V. A., 9, 24, 36, 111, 116, 126, 180, 187.
 Morath, G. S., 85.
 Moraud, M., 191, 194.
 Mordoff, R. A., 24, 120, 133, 134.
 Mordoff, W. E., 24, 152, 159.
 Morgan, R. J., 122.
 Morrill, C. V., 24, 99, 105.
 Morris, R. G., 34.
 Moseley, R. S., 24, 121.
 Moses, W., 24, 121, 132, 201, 203.
 Moxom, P. S., 38.
 Muchmore, G. B., 24, 65, 79, 191, 194.
 Mueller, B., 191.
 Mueller, H., 34, 100, 108.
 Muenscher, W. C., 24, 122, 126.
 Mulcahy, T. A., 34, 100.
 Muldoon, W. E., 24, 111, 115.
 Mullins, E. Y., 38.
 Munford, S. A., 24, 36, 37, 174.
 Murayama, H., 34, 100.

- Murdock, C. C., 24, 66, 85, 191, 198.
 Murphey, H. E., 34, 123.
 Myers, C. H., 24, 118, 134.
 Myers, W. I., 24, 121, 130.
- Nagel, T., 34, 67.
 Nammack, C. E., 24, 97.
 Nammack, C. H., 24, 99, 107.
 Nankivell, F. J., 34, 152.
 Nanz, R. S., 24, 122, 127.
 Needham, J. G., 24, 64, 117, 128, 129, 130.
 Newman, J. T., 9.
 Nichols, E. L., 24, 63, 85, 86, 112.
 Niles, W. L., 24, 98, 107.
 Nirenberg, B., 34, 153.
 Noble, C. V., 24.
 Norris, C., 24, 98, 108.
 Northrop, B. K., 34, 67.
 Northup, C. S., 24, 65, 77, 78, 79, 178, 187.
 Norton, L. J., 34, 121.
 Norton, W. J., 180.
 Noyes, N. H., 179.
 Nye, C., 24, 121.
 Nye, G. H., 37.
- Oberndorf, C. P., 24, 99, 109.
 O'Connell, W. C., 35, 67.
 Ogden, H. N., 24, 36, 145, 149, 150.
 Ogden, R. M., 24, 64, 80, 81, 191, 193.
 Ogden, W. G., 179.
 Ohlendorf, W., 35.
 Olmstead, A. T., 191, 195.
 Olson, E. E., 79.
 Olsson, A. A., 92.
 Orndorff, W. R., 24, 63, 87, 100, 191, 198.
 Orth, S. P., 25, 64, 82, 83.
 Osterberg, E., 25, 99, 106.
 Ostrom, J. N., 180.
 Overholser, E. L., 25, 120, 134, 135.
 Owens, F. W., 25, 66, 84, 191, 197.
 Owens, H. B., 35, 67.
- Page, E. R., 25, 152, 161.
 Paine, E. T., 25, 66, 79, 80.
 Palmer, W. W., 25, 98, 107.
 Papanicolau, G., 25, 99.
 Pardee, H. E., 25, 99, 106.
 Paris, W. F., 37, 138.
 Parson, J. T., 25, 145, 148.
 Pashkow, M. H., 87.
 Patten, J., 8.
 Patterson, W., 25, 37, 179, 180, 184.
 Pearsall, G. M., 85.
 Peck, G. W., 25, 121.
 Peirce, C. A., 25, 151, 160.
 Perkins, G. W., 37.
 Perkins, H. C., 25, 152, 159, 160.
 Perry, J. E., 25, 145, 149, 150.
 Persons, J. W., 93, 95.
 Pertsch, J. G., 25, 151, 161.
- Peters, J. P., 35, 100.
 Phelps, A. C., 25, 138, 143, 144.
 Phillips, H. D., 25, 120, 135, 136.
 Phipps, G. R., 25, 121, 130.
 Pickens, E. M., 25, 111, 116.
 Pidgeon, H. A., 25, 66, 85.
 Pierce, H. F., 25, 99, 106.
 Place, I. A., 8, 9.
 Polk, W. M., 9, 25, 97, 109.
 Pollak, J. A., 180.
 Pollard, F. H., 35, 68.
 Pond, M. A., 25, 145, 148, 191, 199.
 Pope, P. R., 25, 36, 64, 74, 75, 76, 191, 195.
 Porter, A. K., 138.
 Porter, J. P., 35.
 Post, G. A., 37.
 Pound, C. W., 8, 9.
 Pratt, W. F., 9.
 Prescott, F. C., 25, 65, 78.
 Price, H. W., 159.
 Pumpelly, L., 25, 36, 65, 76.
 Putnam, H., 93, 95.
 Putnam, J. F., 25, 151, 160, 161.
- Quarles, J. T., 25, 66, 83, 84, 191.
 Quick, R. L., 25, 152.
- Rahe, A. H., 35, 100.
 Rahe, J. M., 35, 100.
 Rand, R., 35, 68.
 Rankin, W. H., 26, 119, 134.
 Ranum, A., 26, 65, 84.
 Recknagel, A. B., 26, 118, 131, 132.
 Rector, C. H., 35.
 Reddick, D., 26, 117, 134.
 Reed, H. D., 26, 65, 90, 115.
 Reed, H. L., 26, 65, 82, 83, 191, 196.
 Rees, R. W., 26, 118, 135.
 Reese, R. G., 26, 97, 109.
 Reeves, H. P., 191, 194.
 Reid, K. M., 36.
 Reimer, F. H., 35, 153.
 Rettger, E. W., 26, 145, 148, 191, 199.
 Reyes, H. B., 35, 153.
 Reyna, J. E., 26, 120, 128, 201, 203.
 Rice, F. E., 26, 89, 119, 201, 202.
 Rice, J. E., 26, 117, 135.
 Richards, J. H., 26, 99, 107.
 Richardson, L., 26, 152.
 Richtmyer, F. K., 26, 65, 85, 86, 191, 197.
 Rider, A. J., 26, 66, 87, 191.
 Ries, H., 26, 64, 91, 92, 138.
 Riley, H. W., 26, 118, 136.
 Riley, W. A., 26, 36, 64, 118, 128, 129, 130.
 Rivera, G., 191, 195.
 Robb, B. B., 26, 119, 136.
 Roberts, I. P., 26, 117.
 Robertson, G. W. M., 35, 68.
 Robinson, F. C., 180.
 Robinson, M., 26, 119, 130.

- Rockefeller, J. D., jr., 37.
 Rodgers, R. C., 26, 66, 85.
 Rogers, F. S., 26, 152, 159.
 Rogers, H. A., 180.
 Rogers, J., 26, 98, 108.
 Roland, C. F., 37.
 Roof, C. W., 36.
 Roper, J. C., 99, 109.
 Rose, F., 26, 118, 132, 133.
 Ross, H. E., 26, 118, 128.
 Rowlee, W. W., 27, 64, 89, 90, 177.
 Royce, C. H., 27, 119.
 Rubinger, J., 35.

 Saby, R. S., 27, 65, 82, 83.
 Sackett, H. W., 8, 9.
 Sailor, R. W., 179.
 Sampson, M. W., 27, 64, 77, 78, 160, 178.
 Samuels, B., 27, 99, 109.
 Sanderson, E. N., 179.
 Santee, H. E., 35, 99, 108.
 Savage, E. S., 27, 112, 118, 126.
 Sawdon, W. M., 27, 151, 160, 161.
 Scales, B. T., 191, 196.
 Schelleng, J. C., 27, 66, 85.
 Schmidt, N., 27, 63, 73, 81, 82.
 Schneck, H. W., 27, 120, 137, 201, 204.
 Schoder, E. W., 27, 145, 149, 150.
 Schoenech, E., 8.
 Schramm, J. R., 27, 118, 126, 127.
 Schultz, D., 35, 68.
 Schultze, O. H., 27, 97, 108, 109.
 Schumm, P. B., 27, 122.
 Schurman, J. G., 8, 9, 11, 36, 63, 83, 93, 97, 100, 111, 117, 138, 145, 151, 162, 190.
 Schwab, C. M., 8.
 Schwartz, H. J., 27, 99, 107, 109.
 Scoville, G. P., 27, 119.
 Seaman, H., 35, 123.
 Seamon, E. J., 35, 100.
 Seery, F. J., 27, 145.
 Sessions, F. W., 8, 9.
 Seulke, K. J., 27, 120, 126.
 Severance, M., 27, 67, 85.
 Shadle, A. R., 27, 66, 90, 115.
 Shaffer, N. M., 27, 97.
 Shannon, I., 37, 174.
 Shannon, W., 27, 99, 109.
 Sharp, L. W., 27, 119, 127.
 Sharpe, F. R., 27, 65, 85, 191, 197.
 Shearer, J. S., 27, 36, 64, 85, 86, 108, 112.
 Sheffer, A., 191, 196.
 Sheldon, P. G., 35, 67.
 Sheldon, W. H., 27, 98, 107.
 Shepard, C. S., 8, 9.
 Sherburne, A. J., 35, 68, 87.
 Sheridan, J. T., 35, 68.
 Sherwood, F. B., 35.
 Sicard, M. H., 28, 99, 107.
 Silverman, L. L., 28, 66, 84, 191, 197.

 Simpson, S., 28, 64, 90, 100, 110.
 Sipe, S. B., 201, 204.
 Sjoegren, S., 191.
 Smiley, E. M., 28, 121.
 Smith, A. W., 28, 151, 160.
 Smith, B. H., 35, 122.
 Smith, E. E., 28, 67, 85.
 Smith, E. R., 91.
 Smith, F. M., 28, 66, 77.
 Smith, G. E., 28, 122.
 Smith, H., 28, 98, 109.
 Smith, M. J., 28.
 Smith, M. K., 35.
 Smith, O. W., 122.
 Smith, R. S., 35, 122.
 Smith, W. D., 35, 67.
 Snyder, V., 28, 36, 64, 84, 162, 191, 197.
 Soderstrom, G. F., 35.
 Sohon, J. A., 35, 36.
 Somers, R. E., 28, 66, 92.
 Soule, W. L., 28, 99.
 Spaeth, J. N., 35.
 Spaulding, H. V., 28, 99, 108.
 Speed, E., 162.
 Spring, S. N., 28, 118, 131, 132.
 Stacy, T. F., 28, 32.
 Stagg, C. T., 28, 36, 93, 94, 95.
 Stark, W. L., 201.
 Starke, R. G., 36.
 Starkey, K., 191, 193.
 Stebbins, E. V., 184.
 Steiner, J. M., 28, 99, 109.
 Stephens, R., 28, 99, 109.
 Stevens, S., 28, 138, 143.
 Stewart, R. B., 28, 152, 161.
 Stewart, V. B., 28, 119, 134.
 Stillman, R. G., 28, 99, 106, 107.
 Stimson, L. A., 28, 97, 108.
 Stobbs, W. M., 28, 67, 101, 110.
 Stockard, C. R., 28, 97, 105, 108.
 Stocker, G. P., 28.
 Stocking, W. A., jr., 9, 28, 117, 127, 128, 202.
 Stone, E. M., 191, 196.
 Stone, J. L., 28, 117.
 Stone, W. S., 108.
 Stork, H. E., 35, 67, 89, 202.
 Stouffer, P. M., 35, 68.
 Strachstein, A., 28, 100, 109.
 Strahan, J. L., 29, 120, 137.
 Straight, W. D., 8.
 Stricker, P. F., 87.
 Strunk, W., jr., 29, 36, 64, 77, 78, 162, 191, 194.
 Stryke, A. C., 202, 203.
 Stubbs, M. A., 162.
 Sturges, H. A., 35, 68.
 Sturgis, C., 66, 77, 191.
 Sullivan, J., 191, 196.
 Sumner, J. B., 29, 65, 90, 100, 110.
 Sunderville, E., 29, 111, 115.
 Supplee, G. C., 29, 120, 127, 128.

- Sutherland, H., 37.
 Sutton, H. B., 35, 101, 110.
 Sutton, J. E., 67, 101, 110.
 Sweet, A. H., 29, 66, 94.
 Sweet, T. C., 8.
 Swift, H. F., 29, 97, 107.
 Switzer, F. G., 29, 152, 159, 160.
- Tagore, R., 37.
 Tailby, G. W., jr., 29, 120.
 Talbot, E., 38.
 Tanner, H. G., 87.
 Tanner, J. H., 29, 36, 63.
 Tansey, G. J., 8.
 Tapke, V. F., 35, 122.
 Tappan, F. G., 29.
 Taylor, A. S., 29, 97, 108.
 Teas, L. P., 92.
 Thayer, C. L., 29, 121, 131, 202, 203.
 Thilly, F., 29, 63, 79, 80.
 Thomas, A. J., 29, 67, 79.
 Thomas, C. C., 29, 120, 126, 127.
 Thomas, C. E., 29.
 Thomas, E. H., 35, 60.
 Thompson, J. G., 88.
 Thompson, W. G., 29, 97.
 Thro, W. C., 29, 98, 107.
 Tiernon, J. L., 179.
 Titchener, E. B., 29, 63, 80.
 Titsworth, B. E., 29, 120.
 Tjomsland, A., 29, 100.
 Tobey, C. R., 29, 152.
 Torrey, J. C., 29, 98, 108, 109.
 Townsend, C. E., 29, 152, 159, 191.
 Tree, T., 37.
 Treman, C. E., 8, 9, 176.
 Treman, R. E., 187.
 Treman, R. H., 9.
 Trevor, J. E., 29, 63, 86.
 Trowbridge, S., 36.
 Troy, H. C., 30, 118, 127, 128.
 Tuck, C. H., 180.
 Turner, K. B., 30, 145, 148, 149, 150.
 Turnure, P. R., 30, 98, 108.
 Tuttle, E. M., 30, 119, 202, 204.
 Twesten, T. H., 37.
 Tyler, C. M., 8, 30, 63.
 Tyndall, E. P. T., 85.
 Tyrrell, W. D., 30, 100, 109.
- Udall, D. H., 30, 111, 116.
 Underwood, P. H., 30, 145, 148.
 Upton, G. B., 30, 151, 160, 161.
 Urquhart, L. C., 30, 145, 148, 149, 150, 192, 200.
 Usher, A. P., 30, 65, 82, 83.
- Vance, B. M., 30, 99, 108.
 Van Cleef, M., 9.
 Vandegrift, G. W., 30, 100, 109.
 Vanderhoef, J. E., 35, 152, 159.
- Van Dyke, E. C., 30, 120, 129.
 Van Fleet, M. E., 35, 100.
 Van Rensselaer, M., 30, 118, 132, 133, 202, 203.
 Van Scoy, A. C., 35, 123.
 Van Wagenen, W. P., 35, 68.
 Vinton, F. E., 202.
 Vischer, P., 36.
 Volz, E. C., 30, 121, 131.
- Waldbauer, L. J., 87.
 Walker, C. L., 30, 145, 149.
 Wallace, C., 30, 98, 109.
 Wann, F. B., 30, 121, 126, 127.
 Ward, A. R., 112.
 Ward, G. G., jr., 30, 97, 109.
 Warner, A. J., 30, 119, 132.
 Warren, G. F., jr., 30, 117, 130, 131.
 Warsaw, W. W., 30, 119, 137.
 Way, W. D., 30, 111.
 Weaver, L. E., 35.
 Webster, W. R., 179.
 Weeks, F. A., 35.
 Weil, R., 30, 98, 107, 108.
 Weiss, F., 35, 123.
 Weld, H. P., 30.
 Weldgren, N. J., 179.
 Wellhouse, W. H., 35, 128.
 Wells, A. E., 30, 151, 159, 161, 192, 193, 199.
 Welsh, T. W. B., 31, 66, 87, 88, 112.
 Westervelt, J. C., 9.
 Westinghouse, H. H., 8, 9.
 de Wet, C. L. R., 35, 123.
 Wheeler, G. W., 35, 99.
 Wheeler, R. H., 31, 118, 129.
 Whetzel, H. H., 31, 117, 134.
 White, A. C., 31, 67, 73, 162.
 White, A. D., 8, 9.
 White, A. L., 35, 68.
 White, B., 192, 196.
 White, E. A., 31, 118, 131.
 White, H., 8, 9.
 White, J. D., 8, 9.
 White, W. B., 35, 122.
 Whiting, F., 31, 97, 109.
 Whiting, W. A., 31, 122.
 Whitman, C. S., 8.
 Whitman, E. B., 179.
 Whitney, C. W., 31, 120, 129.
 Wichelns, A., 67.
 Wichelns, H. A., 31, 67.
 Wiegand, K. M., 31, 118, 126, 127, 202.
 Wiggans, R. G., 31, 121.
 Wiggers, C. J., 31, 98, 106.
 Wightman, G. E., 87.
 Wigmore, J. H., 96.
 Wilbur, F. C., 35.
 Wild, H. P., 65, 80.
 Wilder, B. G., 31, 63.
 Wilkinson, A. E., 31, 120.
 Will, P., 180.

Willcox, W. F., 9, 31, 36, 63, 83.
Williams, E. L., 9, 37.
Williams, F. B., 138.
Williams, H. S., 31, 63.
Williams, R. B., 8, 9.
Williams, W. L., 31, 111, 116, 126.
Williamson, H. C., 31, 99, 108.
Willis, E. R. B., 162.
Willis, F., 180.
Wills, J. G., 112.
Wilson, B. D., 31, 122.
Wilson, C. S., 9.
Wilson, J. K., 31.
Wilson, T. B., 8, 9.
Wilson, W. M., 31, 117, 133, 134.
Winans, J. A., 31, 64, 79, 143.
Wing, H. H., 31, 111, 117, 126.
Wing, L. A., 32, 100, 108.
Winters, J. E., 32, 97, 109.
Wise, S. S., 38.
Wisenall, E. J., 192, 196.
Wood, E. H., 32, 151, 159.
Wood, H. E., 192, 193.
Woodruff, E. H., 32, 36, 93, 94, 95.

Woolsey, G., 32, 97, 108.
Worcester, J., 32, 99, 108.
Work, P., 32, 120, 137.
Working, H., 35, 66, 82.
Works, G. A., 32, 36, 118, 136.
Worn, G. A., 32, 152, 159.
Wright, A. H., 32, 65, 90.
Wright, I., 35, 122.
Wright, W. K., 192, 194.
Wright, W. W., 32, 100, 109.
Wyckoff, R. W. G., 32, 67.

Young, A. A., 32, 64, 82, 83.
Young, B. P., 32, 121, 128.
Young, C. V. P., 32, 36, 63, 92.
Young, E. C., 35, 123.
Young, G., jr., 32, 138, 143, 144.
Young, H. B., 32, 119, 132.
Youtz, H. A., 38.

Zapata y Torres, M., 32, 66.
Zimm, L. A., 32, 121.
Zinnecker, W. D., 32, 66, 74, 75, 192, 195.

INDEX OF SUBJECTS

- Academic Year, 39.
 College of Agriculture, 123.
 Medical College, 103.
- Administration, General, Committee on, 9.
 Officers of, 11-37.
 Of the University, 7-9.
- Admission, 39-46.
 by entrance examinations, 42-43.
 by Regents' credentials, 43.
 by school certificates, 44.
 from other colleges, 45-46, 94.
 of freshmen, 39.
 of special students, 45, 94, 103, 139.
 to advanced standing, 45, 70, 93, 103.
 to Graduate School, 49.
 to Medical College, 102.
 to undergraduate colleges, 39-46.
- Advanced Algebra, entrance, 40.
- Advanced Degrees, 49, 211, 214.
- Advanced Standing, see admission from other colleges.
- Aesthetics, 80.
- Age requirement at admission, 39.
- Agricultural Chemistry, 88, 126.
- Agricultural College Council, 9, 117.
- Agricultural College Library, 164.
- Agricultural Experiment Station, 117.
 Memoirs, 178.
- Agricultural Students Loan Fund, 177.
- Agriculture, College of, 117-137.
 admission to, 39-46.
 Third Term in, 51, 123, 267.
- Agriculture, entrance subject, 40.
- Agriculture, Summer School, 201-204.
 tuition in, 46.
- Agriculture, Winter Courses, Tuition, 46.
- Algebra, entrance, 40.
- Alumni, Associate, 179-183.
- Alumni Field, 176.
- Alumni Fund, State Scholarship, 177.
- Alumni Trustees, 8.
- American History, 81, 195.
 as entrance subject, 40.
- Anatomy, 91, 105, 110.
 Veterinary, 115.
- Ancient History, 81.
 as entrance subject, 40.
- Animal Husbandry, 126, 202.
- Antiquities, Greek, 74.
 Roman, 74.
- Appropriations, N. Y. State, 7.
- Arabic, 73.
- Aramaic, 73.
- Architecture, College of, 138-144.
 admission to, 39-46.
 fees in, 47.
 tuition in, 46.
- Architecture, Medals in, 144, 215, 216.
 Prizes in, 144, 216.
- Armory, 176.
- Art, Landscape, 133, 203.
 Greek, 74.
 Roman, 74.
- Arts College Entrance Diploma, 43.
- Arts, Fine, 79.
 Frances Sampson Prizes in, 169, 216.
- Arts, Mechanic, 151-161.
- Arts, Mechanic, Sibley Prizes, 158, 169, 215.
- Assistant Professors, List of, 11-32.
- Assistants, List of, 32-36.
- Associate Alumni, 179-183.
- Association of Class Secretaries, 187-188.
- Assyrian, 73.
- Astronomy, 85.
- Athletic Association, 176.
- Athletics, 175.
- Attendance, Certificate of, 96.
 Statistics of, 269-270.
- Bachelor of Architecture, degree, 138.
- Bachelor of Arts, degree, 69.
- Bachelor of Chemistry, degree, 72.
- Bachelor of Laws, degree, 93.
- Bachelor of Science, degree, 123.
- Bachelor of Science in Architecture, degree, 138.
- Bacon Hall, 176.
- Bacteriology, 108, 116, 202.
- Barnes Hall, 174.
- Barnes Reference Library, 164.
- Barnes Shakespeare Prize, 168.
- Bellevue Hospital, 102, 107.
- Beneficiary Funds, 177.
- Bennett, James Gordon, Prize, 114, 170, 216.
- Bibliography, 83.
- Biochemistry, 90, 110.
- Biology, 90, 128, 202.
 as entrance subject, 40.
- Boardman Senior Law Scholarship, 96, 167.
- Board of Trustees, 8.
- Bookkeeping, entrance, 40.
- Botany, 89, 126, 202.
 as entrance subject, 40.
- Bridge Engineering, 149, 200.
- Brown, C. B., Memorial Medal, 144, 169, 215.
- Browning Prize, Corson, 168, 215.
- Buffalo Alumni Association Scholarship, 167.
- Buildings and Grounds, Committee on, 9.
- Caldwell, G. C. Prize, 170, 216.
- Calendar, 5.
- Cancer, Study and Treatment, 102.
 Research, 108.
- Candidacy for Advanced Degrees, 49-51.
 for Undergraduate Degrees, see Degree.

- Certificates for Regents' examinations, 43.
 - of attendance, 96.
 - school, 44.
- Chemistry, 87-89, 106, 198, 202.
 - Bachelor of, 72.
 - entrance subject, 40.
 - Physical, Journal of, 178.
 - prize in, 170, 216.
- Christian Association, 174.
- Civics, entrance, 40.
- Civil Engineering, College, See College of Civil Engineering.
- Civil Engineer, Degree of, 145.
- Classical Philology, Studies in, 178.
- Class Memorials, 188.
- Class Secretaries Association, 187-188.
- Clinic, Small Animal, 115.
- Clinical Pathology, 107.
- College credit at entrance, 45.
- College Entrance Examination Board, 43.
- College Faculties, Constitution of, 10.
- College of Agriculture, 117-137.
 - academic year, 123.
 - admission, 39-46.
 - extension work, 124.
 - library, 164.
 - third term, 123, 267.
 - tuition, 46.
 - Winter Courses, 125, 288.
- Architecture, 138-144.
 - admission, 39-46.
 - fees, 47.
 - tuition, 46.
- Arts and Sciences, 63-92.
 - admission, 39-46.
 - tuition, 46.
- Civil Engineering, 145-150.
 - admission, 39-46.
 - tuition, 46.
- Law, 93-96.
 - admission, 39-46.
 - tuition, 46.
- Mechanical Engineering, 151-161.
 - admission, 39-46.
 - tuition, 46.
- Medicine, See Medical College.
- Sibley. See College of Mechanical Engineering.
- Veterinary, 111-116.
 - admission, 39-46.
 - tuition, 46.
- Colleges of the University, 10.
- Commencement, Forty-Ninth Annual, 205-215.
- Committee, Graduate, 49.
- Committees, of University Faculty, 36.
 - Standing, of Trustees, 9.
- Comparative Philology, 73.
- Comparative Semitic Philology, 73.
- Construction, Materials of, 148.
 - Machine, 159.
- Coptic, 73.
- Cornell Law Quarterly, 95.
- Cornell Studies in Classical Philology, 178.
 - in English, 178.
 - in Philosophy, 178.
- Corson Browning Prize, 168, 215.
 - French Prize, 168, 216.
- Council, Agricultural College, 9, 117.
 - Cornellian, 184-186.
 - Library, 162.
 - Medical College, 9.
 - Veterinary College, 9, 112.
- Crandall, C. L., Prizes, 150, 170.
- Credit, College, at entrance, 45, 69.
- Credit for Terms of Residence, 69.
- Dairy Industry, 127.
- Dana Prizes, 104, 170.
- Dearstyne, Florence, Fund, 177.
- Debate, Prize in, 215.
- Declamation, Prize in, 168, 215.
- Degree, Bachelor of Architecture, 138.
 - Bachelor of Arts, 69.
 - Bachelor of Chemistry, 72.
 - Bachelor of Laws, 93.
 - Bachelor of Science, 123.
 - Bachelor of Science in Architecture, 138.
 - Civil Engineer, 145.
 - Doctor of Medicine, 103.
 - Doctor of Philosophy, 50.
 - Doctor of Veterinary Medicine, 112.
 - Master, 50.
 - Mechanical Engineer, 153.
- Degrees, A.B. and B.Arch., 142.
 - A.B. and C.E., 147.
 - A.B. and LL.B., 95.
 - A.B. and M.D., 105.
 - A.B. and M.E., 157.
 - B.Arch. and C.E., 142.
 - B.S. and D.V.M., 114, 124.
- Degrees Conferred, see Commencement.
- Dermatology, 109.
- Descriptive Geometry, 148.
- Design, Machine, 159.
- Designs, 150.
- Diploma, Arts College Entrance, 43.
 - Fee, 47.
 - Science College Entrance, 43.
- Diplomatics, 82.
- Dispensary, Medical College, 102.
- Doctor of Medicine, 103.
 - of Philosophy, 50.
 - of Veterinary Medicine, 112.
- Drawing,
 - Agriculture, 128, 203.
 - Architecture, 143.
 - Civil Engineering, 148.
 - Entrance subject, 40.
 - Mechanical Engineering, 159, 199.

- Early English Text Society Prizes, 170.
- Eastman Prize, Public Speaking, 169, 216.
- Economic Geology, 92.
- Economics, 82, 196.
 - Home, 132, 203.
- Economy, Rural, 135, 204.
- Education, Department of N. Y. State, 43.
- Education, 80, 193.
 - Industrial, 193.
 - Physical, 92, 193.
 - Rural, 136, 204.
- Egyptian, 73.
- Eighty-Six Memorial Prize, 168, 215.
- Electrical Engineering, 161.
- Elementary Algebra, entrance, 40.
- Embryology, 91, 110.
- Endowment, 7.
- Engineering, Bridge, 149, 200.
 - Civil, see College of.
 - Electrical, 153, 156, 161.
 - Experimental, 160.
 - Geodetic, 148.
 - Heat-Power, 160.
 - Highway, 149.
 - Hydraulics, 149.
 - Industrial, 161.
 - Mechanical, see College of.
 - Mechanics, of, 148, 159, 199.
 - Mining, 155, 157.
 - Municipal, 149.
 - Railroad, 149.
 - Research, 160.
 - Rural, 136.
 - Sanitary, 149.
 - Shop fees, 47.
 - Structural, 200.
 - Topographic, 148.
- English, 77, 194.
 - as entrance subject, 40.
 - Cornell Studies in, 178.
- English History, 195-196, (entrance) 40.
- Enrollment summary, 269-270.
- Entomology, 90, 128, 203.
- Entrance, see Admission.
- Entrance, College Credit, at 45.
 - Credit, unit of, 39.
 - Diploma, Arts College, 43.
 - Diploma, Science College, 43.
 - Examinations, admission by, 42-43.
 - Examinations, College Board, 43.
 - Examinations, Cornell, 42-43.
 - Examinations, Cornell fees, 43.
 - Examinations, Cornell in New York, 42-43.
 - Examinations, Time, 43.
 - Foreign Language Requirements, 40.
 - Requirements, 39-46.
 - Subjects, 40.
- Epigraphy, Greek, 74.
 - Latin, 74.
- Essay Prize, 168, 215.
- Ethics, 79.
- Ethiopic, 73.
- European History, 81.
- Examinations, 96, 104.
 - College Board, 43.
 - Cornell, 42-43.
 - Regents', 43.
- Expenses, see Payments.
- Expenses of the University, 7.
- Experimental Engineering, 160.
- Experiment Station, Agricultural Memoirs, 178.
 - Federal, 117.
- Extension Teaching, 130.
- Extension Work, College of Agriculture, 124.
- Faculties, Constitution of, 10.
 - Members of, See Colleges.
- Faculty, Trustees, 9.
 - University, Members of, 11-32.
- Farm Crops, 130.
- Farm Management, 130.
- Farm, Natural History of, 130.
- Farm Practice, 131.
- Federal Experiment Station, 117.
- Fees, 46-48, 103.
- Fellowships and Prizes in Medical Colleges, 104-105.
- Fellowships and Scholarships, tuition for holders of, 52.
- Fellowships, Graduate, Holders, 171.
- Fellowships, Graduate School, 51.
- Fellowships, Honorary, 52.
- Finance, 82-83.
- Finance, Committee on, 9.
- Finances of the University, 7.
- Fine Arts, 79.
- Fine Arts, Frances Sampson Prize, 169, 216.
- First Aid, 193.
- Floriculture, 131, 203.
- Flower, Veterinary Library, 116, 164.
- Foreign Language requirements, entrance, 40.
- Forestry, 131.
- Foundation and endowment, 7.
- Fraser Scholarship, 96, 167.
- Free Tuition, 46.
- French, 76, 194.
- French and German requirements in Graduate School, 50.
- French, entrance subject, 40.
- French Prize, Corson, 168, 216.
- Freshman, Admission of, 39.
- Freshman Courses in Arts and Sciences, 71.
- Fuertes Medals, 150, 169, 215.
 - Memorial Prizes, 144, 150, 158, 170, 216.
- Geodetic Engineering, 148.
- Geographical Summary of students, 270.

- Geography, 199.
 Historical, 82.
 Physical, 91, 199.
 Physical (entrance subject), 40.
 Geology, 91, 199.
 Geometry, 40.
 Descriptive, 148.
 Plane, entrance, 40.
 Solid, entrance, 40.
 German, 74-76, 195.
 and French requirements in Graduate School, 50.
 entrance subject, 40.
 Goethe Prize, 170.
 Goldwin Smith Hall Library, 163.
 Gothic, 75.
 Government of the University, 7.
 Graduate Prize in Philosophy, 52.
 Graduate School, 49-52.
 admission, 49.
 admission of seniors, 49.
 advanced degrees, 49, 211, 214.
 Faculty, 10.
 fellowships and scholarships, 51.
 tuition fees, 46.
 Graduate Students, 1917-1918, 53-59.
 Graduate Students, Summer of 1917, 60-62.
 Graduate Theses, Titles of, 211-212, 214.
 Graduate work in Summer, 50-51.
 Graduate Work in Third Term, Agriculture, 51.
 Graduation fee, 47.
 Greek, 73; (entrance) 40.
 Antiquities, 73.
 Art, 73.
 Epigraphy, 74.
 History, 81.
 Sculpture, 73-74.
 Guilford Essay Prize, 168, 215.
 Guiteau Student Loan Fund, 177.
 Gymnasium, 176.
 Gynecology, 109.

 Heat-Power Engineering, 160.
 Hebrew, 73.
 High School, General subjects, entrance, 40.
 Highway Engineering, 149.
 Histology, 91, 110.
 Historical Geography, 82.
 History, American, 81, 195; (entrance) 40.
 Ancient, 81; (entrance) 40.
 English, 81, 195; (entrance) 40.
 European, 81.
 Greek, 81, 195.
 Medieval, 81.
 Modern, 81; (entrance) 40.
 Oriental, 73.
 Roman, 81, 195.
 Holders of Fellowships and Scholarships, 171-172.
 Hollingworth Honorarium, 114, 170, 215.

 Home Economics, 132, 203.
 Honorary Fellowships, 52.
 Hospital, Appointments, 106.
 Bellevue, 102, 107.
 Memorial, 102.
 Manhattan State, 102.
 New York, 102, 107.
 Work, 108.
 Hydraulic Engineering, 149.
 Hydraulics, 149, 200.
 Hygiene, 109, 193.
 Committee on, 36.

 Icelandic, 76.
 Income of the University, 7.
 Industrial Education, 193.
 Engineering, 161.
 Infirmary, 174; (fee) 47.
 Institute, Neurological, 102.
 Instruction, Officers of, 11-36.
 Instructors, List of, 11-32.
 Intermediate Algebra (entrance) 40.
 Islandica, 178.
 Italian, 76; (entrance) 40.

 Journal of Physical Chemistry, 178.
 Jurisprudence, Medical, 109; Veterinary, 116.

 Laboratory, fees, 47, 103.
 Loomis, 102.
 Landscape Art, 133, 203.
 Language, foreign requirements, entrance, 40.
 Science of, 195.
 Laryngology, 109.
 Latin, 74, 195; (entrance) 40.
 Law, College of, 93-96.
 Cornell, Quarterly, 95.
 Library, 164.
 Practice Department, 95.
 Scholarship, Boardman, 96, 167.
 Lecturers, Nonresident, 37; 95-96; 112.
 Library, (University), 162, 178.
 Agricultural College, 164.
 Barnes Reference, 164.
 Collections, 162.
 Council, 162.
 Flower Veterinary, 116, 164.
 Goldwin Smith Hall, 163.
 Hart Memorial, 163.
 Law, 164.
 Medical (New York), 164.
 Staff, 162.
 Stimson Hall Medical, 164.
 Limnology, 90, 128.
 Loan Funds, 158, 177.
 Logic, 79.
 Loomis Laboratory, 102.

 Machine Construction, 159.
 Design, 159.

- Manhattan State Hospital, 102.
 Manual Training (entrance) 40.
 Master's Degree, 50.
 for summer work, 50.
 Materia Medica, 106, 115.
 Materials of Construction, 148.
 Mathematics, 84, 197.
 Matriculation fee, 47.
 Meat Inspection, 116.
 Mechanical Engineer, Degree of, 153.
 Engineering (College of), 151-161.
 admission, 39-46.
 shop fees, 47.
 tuition, 46.
 Mechanic Arts, 151-161.
 Prizes, 158, 169-215.
 Mechanics of Engineering, 148, 159, 199.
 Medals, 150, 169, 215.
 Brown, C. B., Memorial, 144, 169, 215.
 Fuertes, 150, 169, 215.
 Sands Memorial, 144, 169.
 Medical Advice, 174.
 Medical Bulletin, 178.
 Medical College, 97-110.
 academic year, 103.
 admission, 102.
 Council, 9.
 fellowships and prizes, 104, 215.
 publications, 178.
 special courses, 103.
 tuition, 46, 103.
 Medical Jurisprudence, 109.
 Medical Library Stimson Hall, 164.
 New York City, 164.
 Medicine, Medical, 106.
 Veterinary, 116.
 Medieval History, 81.
 Memoirs, Agricultural Experiment Station, 178.
 Memorial Hospital, 102.
 Memorials, Class, 188.
 Messenger, L. L., Prize, 168.
 Meteorology, 133, 203.
 Middle Ages, 81.
 Military Science and Tactics, 92, 174.
 Miller, Jane, Prize, 114, 170, 216.
 Mineralogy, 91.
 Mining Engineering, 155.
 Modern History, 81; (entrance), 40.
 Morrison, J. T. Prize, 169, 216.
 Morrison Trophy Cup Prize, 170.
 Municipal Engineering, 149.
 Music, 83, 196.
 Mythology, 73, 74, 76.
 Natural History of the Farm, 130.
 Nature Study, 90, 128, 203.
 Neurological Institute, 102.
 Neurology, 109.
 New York Hospital, 102, 107.
 Ninety-Four Memorial Prize, 168, 215.
 Obstetrics, 108.
 Veterinary, 116.
 Officers of Instruction and Administration, 11-37.
 Ophthalmology, 109.
 Oral English, 194.
 Oratory, Prizes in, 168, 215.
 Oriental History, 73.
 Ornithology, 128, 204.
 Orthopedic Surgery, 109.
 Otology, 109.
 Pack, C. L. Prize, 170.
 Padgham, Frank William, Scholarship, 158, 166.
 Paleography, 82.
 Paleontology, 92.
 Pass cards for Regents' examinations, 43.
 Pathology, Clinical, 107.
 Medical, 108.
 Plant, 134.
 Veterinary, 116.
 Payments to the University, 46-48.
 Pediatrics, 109.
 Percy Field, 176.
 Petrography, 91.
 Pharmacology, 106.
 Philology, French, 77.
 Germanic, 76.
 Cornell Studies in, 178.
 Philosophical Review, 178.
 Philosophy, 79, 194.
 Cornell Studies in, 178.
 Graduate Prize in, 52, 170.
 Phonetics, 75, 77.
 Physical Chemistry, Journal of, 178.
 Physical Culture, 174; (fee), 47.
 Education, 92, 193.
 Physical Examinations, 174.
 Physical Geography, 91; (entrance), 40.
 Physical Training, 92, 204.
 Physics, 85-86, 197; (entrance), 40.
 Physiology, 90, 106, 110.
 Veterinary, 115.
 Plane Geometry, entrance, 40.
 Plane Trigonometry, entrance, 40.
 Plant Breeding, 134, 204.
 Plant Pathology, 134.
 Poetry, J. T. Morrison, Prize, 169, 216.
 Polish Students Loan Fund, 177.
 Political Science, 82-83.
 Polk, J. M. Prizes, 104, 169, 215.
 Pomology, 134, 204.
 Poultry Husbandry, 135, 204.
 Preachers, List of, 38.
 Prize, Graduate, in Philosophy, 52.
 Prizes, 96, 104, 114, 144, 150, 158, 168-170.
 Prizes and Fellowships, in Medical College, 104.
 Prizes awarded 1916-1917, 215-216.
 Professors, List of, 11-32.
 Provençal, 77.

- Psychiatry, 109.
 Psychology, 80, 193.
 Publication, Official, 178.
 Publications, 178.
 Public Speaking, 79, 194.
 Prizes in, 144, 150, 158, 169, 170, 215-216.

 Railroad Engineering, 149.
 Regents' Examinations, 43.
 Registration, summary, 269-270.
 Requirements for admission, 39-46.
 Research, Cancer, 108.
 Hollingworth Honorarium for, 114, 170.
 Residential Halls, 174.
 Review, Philosophical, 178.
 Rhinology, 109.
 Roberts Scholarship Fund, 167.
 Roentgenology, 109.
 Roman Antiquities, 74.
 Art, 74.
 History, 81.
 Romance Languages, 76-77.
 Rural Economy, 135, 204.
 Rural Education, 136, 204.
 Rural Engineering, 136.
 Russian, 195.

 Sage Chapel, 174.
 Sampson, Frances, Fine Arts Prize, 169, 216.
 Sands Memorial Medal, 144, 169, 216.
 Sanitary Engineering, 149.
 Scandinavian, 75.
 Schoellkopf Field, 175, 176.
 Schoellkopf Memorial, 176.
 Scholarship Fund, Roberts, 167.
 Scholarships, 96, 114, 144, 165-167.
 Boardman, 96, 167.
 Buffalo Alumni Association, 167.
 Fraser, 96, 167.
 Scholarships, Graduate, 51-52.
 Holders of, 171-173.
 Padgham, 158, 166.
 Roberts, 167.
 State, 165.
 State Grange, 166.
 Student Fund, 167.
 University Undergraduate, 165; (holders), 173.
 Wilson, 158, 167.
 School certificate, admission by, 44.
 School Inspection, 193.
 Science College Entrance Diploma, 43.
 Science of Language, 195.
 Sculpture, Greek, 73-74.
 Second Term, admission at, 42.
 entrance examinations, 43.
 Seidell, W. C., Book Fund, 150, 177.
 Semitic Languages, 73.
 Seniors, admission to Graduate School, 49.
 Arts and Sciences, in other colleges, 70.
 Shakespeare Prize, Barnes, 168.
 Sherman-Bennett Prize, 168.
 Shop Fees, 47.
 Work, 199.
 Sibley College, 151-161.
 admission, 39-46.
 fees, 47.
 tuition, 46.
 Sibley Prizes in Mechanic Arts, 158, 169, 215.
 Social Science, 82.
 Soil Technology, 136, 204.
 Solid Geometry (entrance) 40.
 Spanish, 77, 194; (entrance), 40.
 Spanish, J. G., White Prizes, 168.
 Special Courses in Medical Colleges, 103.
 Special Students, admission of, 45. See Col-
 leges, admission.
 tuition and fees, 46-48.
 Specifications, 150.
 Spherical Trigonometry, entrance, 40.
 State Grange Scholarships, 166.
 State Scholarship Alumni Fund, 177.
 State Scholarships, 165.
 Statistics, 83.
 Stewart Prize, 170, 216.
 Stimson Hall, 102.
 Medical Library, 164.
 Structural Engineering, 200.
 Students, Graduate, 1917-1918, 53-59.
 Summer, 1917, 60-62.
 Students, Dec. 1, 1917, 217-266.
 Summer Session, 1917, 271-287.
 Third Term Agriculture, 267-268.
 Winter Courses Agriculture, 288-289.
 Studies in Classical Philology, 178.
 Studies in English, 178.
 Studies in Philosophy, 178.
 Subjects, Entrance, 40.
 Summary of Registration, 269-270.
 Summer, Graduate Work in, 50.
 Summer School in Agriculture, 1917, 201-204;
 tuition, 46.
 Summer Session, 1917, 190-204; (students),
 271-287.
 Summer Session, credit toward graduation, 192.
 graduate work, 50.
 Summer Session, tuition, 46.
 Surgery, 107; (Veterinary), 115.

 Therapeutics, 107.
 Theses, Arts and Sciences, 71.
 Graduate, titles, 211-212, 214.
 Third Term College of Agriculture, 50, 123, 267.
 Graduate work, 51.
 Titles of Graduate Theses, 211-212, 214.
 Topographic Engineering, 148.
 Trigonometry, entrance, 40.
 Trustees, Alumni, 8.
 Board of, 8.
 Standing committees, 9.

Tuition fees, 46-47, 103.

Tuition, free, 46.

Undergraduate Colleges, Tuition, 46.

Undergraduate Scholarships, 165, 173.

Unit of credit, definition for certificate, 44.

University, Faculties of, 10.

Faculty, 10.

Faculty Committees, 36.

Library, 162.

Preachers, 38.

Undergraduate Scholarships, 165, 173.

University Year, 39.

Agriculture, 123.

Medicine, 103.

Urology, 109.

Vail, E. G., Fund, 177.

Vegetable Gardening, 137, 204.

Veterinary College, 111-116.

admission, 39-46.

Council, 9, 112.

prizes, 114, 215, 216.

tuition, 46-47.

Veterinary Library, Flower, 116, 164.

Veterinary Practitioners, Study, 114.

Veterinary Students Certificates, 41.

White, H. K., Prizes, 114, 169, 215.

White, J. G., Prizes in Spanish, 168, 216.

Whiting Otology Prizes, 104, 170, 215.

Wilson, F. L., Scholarship, 158, 167.

Winter Courses, College of Agriculture, 125,
288-289.

tuition, 46.

Woman's Guild Fund, 177.

Women Students Loan Fund, 177.

Woodford Prize, 168, 215.

Wurts Loan Fund, 158, 177.

Zoology, 90, 115; (entrance), 40.

KEY TO THE UNIVERSITY BUILDINGS

whose names are not indicative of the purposes to which they are devoted.

- BAILEY HALL—Auditorium.
- BARNES HALL—Cornell University Christian Association.
- BOARDMAN HALL—The College of Law.
- CASCADILLA HALL—Dormitory for Men.
- FRANKLIN HALL—Department of Electrical Engineering.
- GOLDWIN SMITH HALL—Departments of Languages, Philosophy, History Economics, etc.
- LINCOLN HALL—College of Civil Engineering.
- MCGRAW HALL—Departments of Geology and Zoology.
- MORRILL HALL—Administration Offices; Psychological Laboratory.
- MORSE HALL—Department of Chemistry.
- PRUDENCE RISLEY HALL—Dormitory for Women.
- RAND HALL—Sibley College, Shops.
- ROBERTS HALL—Main Building of the College of Agriculture.
- ROCKEFELLER HALL—Department of Physics.
- SAGE COLLEGE—Dormitory for Women.
- SIBLEY COLLEGE—College of Mechanical Engineering.
- STIMSON HALL—Ithaca Division of the Medical College.
- WHITE HALL—College of Architecture; Department of Mathematics.



